

a school with a view...



undergraduate catalog 1999-2000

for people with a vision

A message from the President of Ohio University to incoming students

Ohio University
Athens Ohio 45701
740.593.1000

Admissions
593.4100

Alumni Relations
593.4300

Athletic Ticket Office
800.575.CATS

Bursar
593.4130

Fine Arts Box Office
593.4800

**Public Occasions
Box Office**
593.1780

Student Activities
593.4025

Student Financial Aid
593.4141

University Police
593.1911

Visitors Center
593.2097

**Personal
Accountability
Trust
and
Honor**

I'm delighted that our paths have crossed today via this message. Congratulations on choosing Ohio University. If you apply yourself while you are here, you will earn more than a degree—the chance to exceed your goals and excel in your chosen discipline.

We have a rich tradition of leadership. Historically our campus has been a place of opportunity where students from varied backgrounds, some of them very modest, have learned to be leaders. The university boasts leaders in nearly all aspects of professional and scholarly life. We know that one person who is both articulate and committed can make a difference.

You can make a difference.

But before you do, many of you will have to adapt to a new environment. For some, it will be your first time away from home. For others, it will be the first time in a rural environment, the lovely Appalachian foothills. For everyone entering the class gateway, it will be a chance to meet challenges independently and chart your own future.

Your PATH at Ohio is a principle to reinforce your ideals. PATH stands for *Personal Accountability, Trust, and Honor*. Those are important values because they build leadership.

When you take responsibility for your actions, you establish trust—not only with your professors, but with the many new friends, landlords, employers, law enforcement officers, and others you will meet in Athens. Out of that trust comes honor. We have no formal honor code. That's why we emphasize character. Honor emanates from within and is part of the learning process, symbolized by the awarding of the degree at the end of *Your PATH at Ohio*. As you take your first step along that PATH, let me stress the values that we hold dear at Ohio:

Diversity means that we treasure the opportunity to learn from the differences among us. *We do not tolerate racism, sexism, or any "ism" that harms others.*

Respect means treating others as you wish to be treated, fostering good relations with faculty, staff, administrators, and the student body, along with Athens citizens, elected officials, and city and campus law enforcement officers. *We do not tolerate disturbances of the peace.*

Civility means respecting others' points of view and agreeing, at times, to disagree...knowing that our common bonds are greater than any individual differences. *We do not tolerate harassment of any kind.*

We hope that you applaud these standards. They're meant to make you feel as secure at Ohio and in Athens as you would in your home or your home town. We know from experience that you will blossom in such an environment and become one of our many honored alums, who since 1804 have also traveled *Your PATH at Ohio*.



Robert Glidden, President

Ohio University Undergraduate Catalog 1999–2000

The fees, programs, and requirements contained in this catalog are effective with the 1999 fall quarter. They are necessarily subject to change at the discretion of Ohio University. It is the student's responsibility to know and follow current requirements and procedures at the departmental, college, and university levels.

Ohio University is an affirmative action institution.

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Ohio University Mission Statement

Ohio University is a public university providing a broad range of educational programs and services. As an academic community, Ohio University holds the intellectual and personal growth of the individual to be a central purpose. Its programs are designed to broaden perspectives, enrich awareness, deepen understanding, establish disciplined habits of thought, prepare for meaningful careers and, thus, to help develop individuals who are informed, responsible, productive citizens.

Undergraduate Education

Ohio University offers undergraduate instruction on both the Athens campus and the regional campuses.

Undergraduate programs, designed to contribute to intellectual and personal development and career goals of students, emphasize liberal studies.

Undergraduate major programs, preprofessional, and professional programs prepare students for employment in a variety of careers and for continued study. Two-year technical and associate's degree programs, reflecting employment opportunities, as well as the general career interests of students, are taught primarily at the regional campuses.

At the Athens campus, instruction is combined with residence life and other extracurricular programs in an effort to create a collegiate experience integrating learning and living.

Graduate and Professional Education

Ohio University offers graduate and professional education. The primary forms of activity are advanced and specialized courses of study, supervised practical experience, and research.

The essential concentration of faculty, material, and space resources dictates that the activity associated with graduate and professional education will be centered on the Athens campus. This activity is not limited to that campus; research and instruction are carried out at various locations.

Scholarship, Research, and Creative Activity

Ohio University is a center for scholarship, research, and creative activity involving the creation, testing, and dissemination of knowledge, understanding, expressions, and technique.

As a public university, Ohio University has a particular responsibility to address societal issues and needs through such scholarship, research, and creative activity. The scholarly and artistic activity of the faculty enhances the teaching function at all levels of the student experience.

Extended Community

Ohio University serves an extended community. The public service mission of the university, expressed in such activities as public broadcasting and continuing education programs, reflects the responsibility of the university to serve the ongoing educational needs of the region. The regional campuses perform a critical role in serving this extended community.

The university has state-wide responsibility for an extended university program using independent study through correspondence.

It is the purpose of these extended university programs to serve a diverse range of educational needs, from professional groups requiring continuing courses of study related to the practice of their professions, to individuals desiring occasional or special interest study.

Ohio University contributes to cultural and economic development, health care, and to other human services.

Adopted January 15, 1977, and reaffirmed January 1988.

A Commitment to Diversity

Ohio University is committed to promoting an atmosphere where understanding and acceptance of cultural and racial differences are ensured.

As President Robert Glidden stated in his 1995 State of the University Address: "A commitment to academic excellence carries with it the responsibility of seeing to it that Ohio University is a just and diverse community—that everyone who comes here has an equal opportunity to develop his or her talents to the fullest. Education is not well served by homogeneity; it is diversity that enriches learning and diversity that prepares our students for the realities of the world—especially the world of the future. We need to find more ways to engage the full range of abilities of all our people, and we need especially to attend to changes that will promote recognition and appreciation of accomplishments by women and minorities so that all persons in the university are equally respected and empowered."

Ohio University is bound morally, emotionally, and intellectually to pursue the realization of a vision of real community. As a result, it is committed to equal opportunity for all people and is pledged to take direct and affirmative action to achieve that goal. In upholding its commitment, Ohio University will not accept racism, sexism, homophobia, bigotry, or other forms of violations of human rights. Such actions are inconsistent with, and detrimental to, the values that we hold essential as an institution of higher learning. All students, faculty, and staff of Ohio University are expected to uphold the university's commitment to a just and diverse community and to take a leadership role in ensuring an atmosphere of equality.

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Telephone Numbers

The area code for all campus numbers is 740.

The university switchboard number is 593-1000.

Student Services

- 593-4100 Admissions
- 593-1174 Athletic Department
- 593-4130 Bursar
- 593-4125 Cashier
- 593-9140 Disability Services
- 593-4141 Financial Aid and Scholarships
- 593-4090 Housing
- 593-4027 Multicultural Programs
- 593-4191 Registrar's Office
- 593-4025 Student Activities
- 593-1660 Student Health Service
- 593-4186 Veterans Affairs

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- 593-2850 Arts and Sciences
- 593-2002 Business
- 593-4883 Communication
- 593-4400 Education
- 593-1474 Engineering and Technology
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Academic Calendar 1999–2000

Fall Quarter

August 5, Thursday

Last day to pay fees for fall quarter (to ensure preregistration).

September 4, Saturday

Residence halls open 9 a.m.
Housing office open 8 a.m.–4 p.m. (limited services will be available).
Admissions, bursar's, financial aid, and registrar's offices open 10 a.m.–4 p.m. (limited services will be available).

September 5, Sunday

Orientation begins for all new freshmen and transfer students not attending summer Precollege.
Housing office open 8 a.m.–4 p.m. (limited services will be available).
Admissions, bursar's, financial aid, and registrar's offices open 10 a.m.–4 p.m. (limited services will be available).

September 6, Monday

First meal served on board plan (breakfast).
Housing office open 8 a.m.–4 p.m. (limited services will be available).
Admissions, bursar's, financial aid, and registrar's offices open 10 a.m.–4 p.m. (limited services will be available).
Labor Day (university offices closed, classes not in session).

September 7, Tuesday

Classes begin on Athens and regional campuses.

September 10, Friday

Last day to check out of residence hall to receive a 75% housing refund.

September 11, Sunday

Rosh Hashanah, first day.

September 16, Thursday

Last day for filing application and paying fee for conferral of degree on November 24.

September 17, Friday

Last day to check out of residence hall to receive a 50% housing refund.

September 19, Sunday

Yom Kippur begins at sundown.

September 20, Monday

Yom Kippur.

September 21, Tuesday

Last day to register for fall quarter. Students who are in attendance by this date but fail to complete all registration procedures must pay a penalty for retroactive registration correction according to this schedule:
Sept. 22–Oct. 1, \$40;
Oct. 4–8, \$60;
Oct. 11–15, \$80;
Oct. 18–22, \$100.

Last day to receive partial refund of registration fees (80%) for complete withdrawal from the university.

Last day to apply for pass/fail grading option through your academic dean's student services office or regional campus student services office.
Last day to add a class, drop a class without receiving a grade (WP/WF), or change a grading option (credit to audit/audit to credit or pass-fail to regular grade option/regular grade option to pass-fail).

September 22, Wednesday

Classes dropped will not remove fees for hours dropped; corrected registration that results in increased hours could increase tuition.
Classes dropped will remain on student's academic record with WP/WF grade.

September 24, Friday

Last day to check out of residence hall to receive a 25% housing refund.

September 24–26

Parents Weekend.

September 25, Saturday

Honors Convocation for undergraduate scholarship students and parents.

October 11, Monday

Last day to drop a class from fall quarter schedule (WP/WF grade assigned, no fee refund).

October 18, Monday

Last day for removing incomplete grades incurred during last enrollment (if not removed, 1 grade will change to F).
Academic advising begins for winter quarter preregistration (contact college, department, or regional campus student services office for details).

October 22–24

Homecoming Weekend.

October 25, Monday

Winter quarter preregistration begins.

November 11, Thursday

Veterans Day (university offices officially closed; classes **not** in session).

November 15, Monday

Last day to withdraw from the university for fall quarter.

November 16, Tuesday

Last day of classes for fall quarter.

November 17, Wednesday

Reading Day.

November 18, Thursday

Examinations begin.

November 23, Tuesday

Last meal served on board plan (lunch).
Residence halls close at 5 p.m.

November 24, Wednesday

Quarter closing date.

November 25, Thursday

Thanksgiving Day (university closed).

November 26, Friday

Columbus Day observed (university closed).

November 29, Monday

Deadline (10 a.m.) for all grades, including pending grades from previous quarters, for degree candidates.

December 1, Wednesday

Last day to pay fees for winter quarter (to ensure preregistration).

December 3, Friday

Hanukkah begins at sundown.

December 4, Saturday

Hanukkah, first day.

December 23, Thursday

Presidents Day observed (university closed).

December 24, Friday

Christmas Day observed (university closed).

December 31, Friday

New Year's Day observed (university closed).

Winter Quarter

January 2, Sunday

Residence halls open at 9 a.m.
Housing office open 9 a.m.–2 p.m.
New student orientation.

January 3, Monday

First meal served on board plan (breakfast).
Classes that meet 4:10 p.m. or later and meet only on Mondays or on Mondays and one other day will be in session the evening of January 3.

January 4, Tuesday

Classes begin on Athens and regional campuses.

January 8, Saturday

Last day to check out of residence hall to receive a 75% housing refund.

January 12, Wednesday

Last day for filing application and paying fee for conferral of degree on March 18.

January 15, Saturday

Last day to check out of residence hall to receive a 50% housing refund.

January 17, Monday

Martin Luther King Day (university offices closed, classes not in session).

January 18, Tuesday

Last day to register for winter quarter. Students who are in attendance by this date but fail to complete all registration procedures must pay a penalty for retroactive registration correction according to this schedule:

Jan. 19–28, \$40;
Jan. 31–Feb. 4, \$60;
Feb. 7–11, \$80;
Feb. 14–18, \$100.

Last day to receive partial refund of registration fees (80%) for complete withdrawal from the university.

Last day to apply for pass/fail grading option through your academic dean's student services office or regional campus student services office.

Last day to add a class, drop a class without receiving a grade (WP/WF), or change a grading option (credit to audit/audit to credit or pass-fail to regular grade option/regular grade option to pass-fail).

January 19, Wednesday

Classes dropped will not remove fees for hours dropped; corrected registration that results in increased hours could increase tuition.
Classes dropped will remain on student's academic record with WP/WF grade.

January 21–23

Dads Weekend.

January 22, Saturday

Last day to check out of residence hall to receive a 25% housing refund.

January 28–30

Siblings Weekend.

February 1, Tuesday

Academic advising begins for spring quarter preregistration (contact college, department, or regional campus student services office for details).

February 7, Monday

Last day to drop a class from your winter quarter schedule (WP/WF grade assigned, no fee refund).

February 8, Tuesday

Spring quarter preregistration begins.

February 14, Monday

Last day for removing incomplete grades incurred during last enrollment (if not removed, I grade will change to F).

February 25–27

First-Year Parents Weekend.

March 1, Wednesday

Last day to pay fees for spring quarter (to ensure preregistration).

March 10, Friday

Last day to withdraw from the university for winter quarter.

March 11, Saturday

Last day of classes for winter quarter.

March 13, Monday

Examinations begin.

March 17, Friday

Last meal served on board plan (dinner).

March 18, Saturday

Quarter closing date.
Residence halls close at 2 p.m.

March 20, Monday

Deadline (10 a.m.) for all grades, including pending grades from previous quarters, for degree candidates.

Spring Quarter

March 26, Sunday

Residence halls open at 9 a.m.
Housing office open 9 a.m.–2 p.m.
New student orientation.

March 27, Monday

Classes begin on Athens and regional campuses.
First meal served on board plan (breakfast).

April 1, Saturday

Last day to check out of residence hall to receive a 75% housing refund.

April 3, Monday

Summer quarter preregistration begins.

April 4, Tuesday

Last day for filing application and paying fee for conferral of degree on June 9, 10.

April 8, Saturday

Last day to check out of residence hall to receive a 50% housing refund.

April 10, Monday

Last day to register for spring quarter. Students who are in attendance by this date but fail to complete all registration procedures must pay a penalty for retroactive registration correction according to this schedule:

April 11–21, \$40;
April 24–28, \$60;
May 1–5, \$80;
May 8–12, \$100.

Last day to receive partial refund of registration fees (80%) for complete withdrawal from the university.

Last day to apply for pass/fail grading option through your academic dean's student services office or regional campus student services office.

Last day to add a class, drop a class without receiving a grade (WP/WF), or change a grading option (credit to audit/audit to credit or pass-fail to regular grade option/regular grade option to pass-fail).

April 11, Tuesday

Classes dropped will not remove fees for hours dropped; corrected registration that results in increased hours could increase tuition.
Classes dropped will remain on student's academic record with WP/WF grade.

April 15, Saturday

Last day to check out of residence hall to receive a 25% housing refund.

April 16, Sunday

Palm Sunday.

April 19, Wednesday

Passover begins at sundown.

April 20, Thursday

Passover, first day.

April 21, Friday

Good Friday.

April 23, Sunday

Easter.

May 1, Monday

Last day to drop a class from your spring quarter schedule (WP/WF grade assigned, no fee refund).

May 5, Friday

Last day for removing incomplete grades incurred during last enrollment (if not removed, I grade will change to F).

May 5-7

Moms Weekend.

May 8, Monday

Academic advising begins for fall quarter preregistration (contact college, department, or regional campus student services office for details).

May 15, Monday

Fall quarter preregistration begins.

May 29, Monday

Memorial Day (university offices officially closed, classes not in session).

June 1, Thursday

Last day to pay fees for summer quarter (to ensure preregistration).

June 2, Friday

Last day to withdraw from the university for spring quarter.

June 3, Saturday

Last day of classes for spring quarter.

June 5, Monday

Examinations begin.

June 9, Friday

Annual Graduate Commencement.

June 10, Saturday

Quarter closing date.

Annual Undergraduate

Commencements.

Last meal served on board plan (breakfast).

Residence halls close at 5 p.m.

June 13, Tuesday

Deadline (10 a.m.) for all grades, including pending grades from previous quarters, for degree candidates.

Summer Quarter

First Summer Session

June 11, Sunday

Residence halls open at 9 a.m.
Housing office open 9 a.m.-2 p.m.
New student orientation.

June 12, Monday

First session classes begin.
First meal served on board plan (breakfast).

June 15, Thursday

First session students should apply and pay fee for conferral of undergraduate and graduate degrees for summer session on August 19; final deadline for applying is July 20.

June 17, Saturday

Last day to check out of residence hall to receive a 60% housing refund.

June 19, Monday

Last day to register for first session.

Last day to receive partial refund of registration fees (80%) for complete withdrawal from the university for first session classes.
Last day to apply for pass/fail grading option through your academic dean's student services office or regional campus student services office for first session.

Last day to add a class, drop a class without receiving a grade (WP/WF), or change a grading option (credit to audit/audit to credit or pass-fail to regular grade option/regular grade option to pass-fail) for first session.

June 20, Tuesday

First session classes dropped will not remove fees for hours dropped (corrected registration that results in increased hours could increase tuition).
First session classes dropped will remain on student's academic record with WP/WF grade.

June 24, Saturday

Last day to check out of residence hall to receive a 40% housing refund.

June 28, Wednesday

Last day to drop a class for first session (WP/WF grade assigned, no fee refund).

July 4, Tuesday

Independence Day (university offices closed, classes not in session).

July 13, Thursday

Last day to withdraw from first session.

July 14, Friday

Last day of first session classes. NOTE: Final examinations are scheduled for the last meeting time of each individual class.

July 15, Saturday

First session closing date.
Residents from first session only must vacate residence halls by 2 p.m.

July 17, Monday

Deadline (10 a.m.) for all first session grades, including pending grades from previous quarters, for degree candidates.

August 25, Friday

Last day for removing incomplete grades incurred during last enrollment (if not removed, I grade will change to F).

Second Summer Session

July 16, Sunday

Residence halls open at 10 a.m.
New student orientation.

July 17, Monday

Second session classes begin.

July 20, Thursday

Last day for filing application and paying fee for conferral of undergraduate and graduate degree on August 19.

July 22, Saturday

Last day to check out of residence hall to receive a 60% housing refund.

July 24, Monday

Last day to register for second session.

Last day to receive partial refund of registration fees (80%) for complete withdrawal from the university for second session classes.

Last day to apply for pass/fail grading option through your academic dean's student services office or regional campus student services office for second session. Last day to add a class, drop a class without receiving a grade (WP/WF), or change a grading option (credit to audit/audit to credit or pass-fail to regular grade option/regular grade option to pass-fail) for second session.

July 25, Tuesday

Second session classes dropped will not remove fees for hours dropped (corrected registration that results in increased hours could increase tuition).

Second session classes dropped will remain on student's academic record with WP/WF grade.

July 29, Saturday

Last day to check out of residence hall to receive a 40% housing refund.

August 2, Wednesday

Last day to drop a second session class (WP/WF grade assigned, no fee refund).

August 17, Thursday

Last day to withdraw from second session.

August 18, Friday

Last day of second session classes.
NOTE: Final examinations are scheduled for the last meeting time of each individual class.
Last meal served on board plan (dinner).

August 19, Saturday

Second session closing date.
Residence halls close at 2 p.m.

August 21, Monday

Deadline (10 a.m.) for all second session grades, including pending grades from previous quarters, for degree candidates.

August 25, Friday

Last day for removing incomplete grades incurred during last enrollment (if not removed, I grade will change to F).

Full Summer Quarter**June 11, Sunday**

Residence halls open at 9 a.m.
Housing office open 9 a.m.–2 p.m.
New student orientation.

June 12, Monday

Classes begin for full term.
First meal served on board plan (breakfast).

June 26, Monday

Last day to register for full term.
Last day to receive partial refund of registration fees (80%) for complete withdrawal from the university for full term classes.
Last day to apply for pass/fail grading option through your academic dean's student services office or regional campus student services office for full term.
Last day to add a class, drop a class without receiving a grade (WP/WF), or change a grading option (credit to audit/audit to credit or pass-fail to regular grade option/regular grade option to pass-fail) for full term.

June 27, Tuesday

Full term classes dropped will not remove fees for hours dropped (corrected registration that results in increased hours could increase tuition).
Full term classes dropped will remain on student's academic record with WP/WF grade.

July 4, Tuesday

Independence Day (university offices closed, classes not in session).

July 17, Monday

Last day to drop a full term class (WP/WF grade assigned, no fee refund).

July 20, Thursday

Last day for filing application and paying fee for conferral of undergraduate and graduate degree on August 19.

August 17, Thursday

Last day to withdraw from full term.

August 18, Friday

Last day of full term classes. NOTE: Final examinations are scheduled for the last meeting time of each individual class.
Last meal served on board plan (dinner).

August 19, Saturday

Quarter closing date.
Residence halls close at 2 p.m.

August 21, Monday

Deadline (10 a.m.) for all full term grades, including pending grades from previous quarters, for degree candidates.

August 25, Friday

Last day for removing incomplete grades incurred during last enrollment (if not removed, I grade will change to F).

NOTE: Dates necessarily are subject to change at the discretion of the Ohio University Board of Trustees.

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Guidelines and General Information

Admissions

This section outlines general information about applying for admission to Ohio University. Contact the Office of Admissions from 8 a.m. to 5 p.m. eastern time for more specific information or for application materials. After hours you may request application materials through our answering service or by fax or e-mail. Our applications are also available on-line. Visit our web site to apply electronically or to download and print an application.

Office of Admissions
Ohio University
Chubb Hall 120
Athens OH 45701-2979
Telephone 740-593-4100
Fax 740-593-0560
E-mail uadmiss1@ohiou.edu
Web www.ohiou.edu

Admission Requirements and Procedures

Selective and Limited Admission

If you are planning to apply to Ohio University, please note that admission is selective—it is granted to the best qualified candidates—and admission to the university does not guarantee admission into a specific program of study. Contact the Office of Admissions or the specific academic department for details regarding selective and limited admission policies.

If you are considering applying for admission to Ohio University, your high school background should include these courses:

- 1 Four years of English, with an emphasis on composition;
- 2 Three years of mathematics (algebra I, algebra II, plane geometry; precalculus is encouraged for prospective engineering or business majors), one of which should be taken in the senior year;
- 3 Three years of social sciences (history, social studies, etc.);
- 4 Three years of natural sciences (physics is encouraged if you plan to pursue an engineering major);
- 5 Two years of foreign language;
- 6 One year of visual or performing arts (art, band, chorus, music, orchestra, theater, etc.).

Exceptions to this program of study may be made in light of overall academic preparedness.

Categories of Admission

Freshman Applicant. If you (1) soon will receive a high school diploma from a chartered or accredited secondary school or a GED equivalency certificate, and (2) have not been enrolled for 12 or more quarter hours (or 9 or more semester hours) of coursework at a college or university, you are considered a freshman applicant. You must have a high school diploma or a General Educational Development (GED) High School Equivalent Certificate by the time you plan to enter college. Consideration for admission is based upon your high school performance (class rank, grade-point average, and curriculum); aptitude test scores (ACT or SAT I); the strength of your high school program; and special ability, talent, or achievement.

Even if you have earned credit for college courses as a high school student through one of the post-secondary options or other concurrent enrollment programs, you are still considered a freshman applicant.

Home schooled students should contact the Office of Admissions for special procedures required of non-high school graduates who have pursued home schooling.

To apply, submit a completed application for admission (included in the *Application Bulletin*), the nonrefundable \$40 application fee,

ACT or SAT I scores, and an official high school transcript (sent directly to the Office of Admissions from your high school) or GED score report (sent directly to the Office of Admissions from the appropriate state GED office, official testing center, or GED Testing Service).

If any special conditions apply to enrollment, they will be clearly stated in the letter of admission.

If you are on a non-immigrant visa, you should also review the international applicant section.

If you are financially disadvantaged, the application fee may be waived upon written recommendation from your high school guidance counselor.

Beginning in October and continuing through March, those who have submitted completed application materials will be notified of their admission status for fall quarter. Admission decisions and notifications are made on a rolling basis for all other quarters. Following acceptance for admission, you will receive information about financial aid (if you apply for financial aid) and a residence hall contract and agreement form. Since all freshmen are required to live in university housing, you should submit the \$100 residence hall deposit (by May 1 if you are applying for fall quarter) to confirm your enrollment. Failure to do so may result in cancellation of your admission offer. Refunds of housing deposits will be made until May 1. You and your parents will also receive details about the Precollege Orientation program for entering students after your deposit has been received.

Transfer Applicant. All campuses of Ohio University consider you to be a transfer applicant if you have completed more than 12 hours at another institution after you graduated from high school. If you complete college level courses concurrently with high school you are considered a freshman applicant.

To be considered for transfer admission at the Athens campus of Ohio University, you must have obtained a minimum accumulative g.p.a. of 2.5 on a 4.0 scale from a regionally accredited institution. If

you have completed less than 30 quarter or 20 semester hours of transferable course work, you must also meet freshman admission requirements. You must also be in good standing with, and eligible to return to, your previous institution.

Admission as a transfer student does not guarantee admission to all majors, minors, or fields of concentration. Some colleges and programs at Ohio University have additional requirements for transfer student admission, including a g.p.a. higher than 2.5. Please refer to the Colleges and Curricula section of this catalog for each college's or school's specific requirements.

Since most of our programs and procedures are set up to begin fall quarter, you are strongly encouraged to apply for that term.

To apply, submit a completed application for admission form and the nonrefundable \$40 application fee. You must also arrange for official transcripts to be sent directly to the Office of Admissions from the registrar at each college or university you have attended. If you have completed less than 30 quarter or 20 semester hours of college-level work, an official high school transcript is also required. Students who have completed more than 30 quarter or 20 semester hours may be asked to submit a high school transcript since all students must have graduated from an accredited high school.

Space is available in university residence halls for transfer students. After you have been accepted for admission, you will receive a housing contract.

International Applicant. If you are on a non-immigrant visa, or will require one to study, you will be considered an international applicant. Admissions requirements are the same as those for U.S. citizens and permanent residents and include completion of a college-preparatory, secondary school program with excellent grades. Students wishing to transfer should have a strong grade point average in all college-level work completed.

To apply, you will need to submit an international application for Admission, a \$40 application fee, official secondary school records, ACT or SAT I examination results if you

have been out of secondary school for less than one year, and official records of any university level work completed. While not required, TOEFL results are encouraged. Financial documentation demonstrating you have sufficient funds to cover your educational and living expenses for a 12-month period must also be submitted before a visa certificate can be issued on your behalf. Refer to the international application materials for specific information regarding the above items.

If you are accepted for admission, you will be required to take an English placement test when you arrive on campus to determine if you will need additional English language instruction in the Ohio Program of Intensive English. If you need additional English language instruction, you may have to delay registering for regular classes until your English skills have improved enough to assure your success in the classroom.

When you are admitted, you will receive the appropriate materials to use for securing your student visa. Additional information, including the housing contract, will be forwarded separately after your admission.

International student application materials may be obtained from the Office of Admissions, Ohio University, Chubb Hall 120, Athens OH USA 45701-2979, telephone 740-593-4110. Applications are also available online at www.ohio.edu. Further information about services for international students is available from the Office of International Student and Faculty Services, Ohio University, Scott Quad 172, Athens OH USA 45701-2979, telephone 740-593-4330.

High School Enrollment Options Applicant. If you are a high school student, you may enroll in university classes concurrently with your high school enrollment to earn college credit or both high school and college credit. Students enrolling in the summer may pursue college credit only (Option A).

Those from high schools within commuting distance to the university may be considered for enrollment under two options: (A) you enroll to receive college—and not high

school—credit for courses, and you pay applicable fees; or (B) you enroll to receive both high school and college credit, and you are not required to pay for tuition and textbook fees. Additional information and application materials for these options are available from the admissions office. Please note that if you have taken college courses as a high school student under one of these options and plan to apply for admission to Ohio University as a full-time student, you will need to re-apply as a freshman applicant, not a transfer applicant, even though you have already earned college credit. Credit earned at Ohio University under these options will become part of your permanent record and will be figured into your accumulative grade-point average.

Early Admission Applicant.

Under special circumstances, Ohio University will consider admitting you as a regular university student after your junior year of high school, but before your high-school graduation. Submit a completed application for admission (included in the current *Application Bulletin*), the nonrefundable application fee, your high school transcripts, ACT or SAT I scores, a statement explaining your reasons for wanting to enroll, and a recommendation from your high school attesting to your readiness to begin college-level studies. You will be required to earn your high school diploma or GED certificate by the beginning of your sophomore year in college to continue university enrollment. Additional information on this option is available from the director of admissions.

Re-Enrolling Student. If you have previously attended one of Ohio University's campuses but are not currently enrolled (excluding summer quarter) and wish to return as an undergraduate student, you are considered a re-enrolling student. If you have been dropped from the university, you will need to apply to the college where you were last enrolled to be reinstated; if your records have been placed on hold, you will need to make arrangements to resolve the situation through the appropriate office before re-enrollment can be considered.

To receive information about registration, contact the registrar's office at 740-593-4191. If you have attended another college or university since you were last enrolled at Ohio University and wish to transfer credit, arrange to have a transcript sent to the Office of Admissions from each post-secondary institution you have attended.

Relocating Student. If you are currently attending one of Ohio University's regional campuses and wish to relocate to the Athens campus, you are considered a relocating student. Relocation is possible for any quarter, though you must have a g.p.a. of 2.0 or better to be eligible for relocation. Contact the Office of Student Services on your regional campus for additional information.

For on-campus housing, complete a relocating student card, available from the registrar's office or from the Student Services Office at your regional campus, and submit it to the registrar's office on the Athens campus.

Nondegree Student Applicant.

If you wish to carry a limited number of courses at the university and are not interested in earning a degree, you are considered a nondegree student applicant. To apply, complete a nondegree student application, available from the Office of Admissions. You must have a high school diploma or GED certificate to apply as a nondegree student. You will be required to submit transcripts of high school, GED, or previous post-secondary work. The application must be received two weeks before the first day of classes for the quarter for which you are applying. Transcripts must be received no later than one week before the first day of classes. Contact the Office of Admissions for eligibility requirements.

The university currently charges a \$20 nonrefundable application fee for nondegree applicants, although *summer-only* nondegree students are not charged. If you later wish to enter a degree program, you will need to reapply for admission.

Options For Receiving Credit

Several methods of receiving Ohio University credit for work previously completed or for general knowledge and experience are available through Ohio University. For further information on any of the following, contact the University Examiner, Ohio University, Chubb Hall, Athens OH 45701-2979, telephone 740-593-4110.

Credit for Advanced Placement (AP) and the College Level Examination Program (CLEP).

If you have taken examinations provided by the Advanced Placement (AP) program of the College Board and achieved a score of three or higher, you may be able to receive Ohio University credit for your efforts. Scores must be sent directly from the College Board to the Office of Admissions.

Ohio University also participates in the College Level Examination Program (CLEP) sponsored by the College Board. Subject to approval by the appropriate department in each case, Ohio University will allow credit for satisfactory performance on the CLEP subject matter examinations, provided you take the examinations before you formally enroll in the university. The university does not award credit for scores achieved on the CLEP general examinations. Policies on credit for test scores are subject to change; check with the Office of Admissions for current information.

Detailed information about both the AP and CLEP programs is available from high school guidance offices, from the Office of Admissions, or by contacting the College Board, Box 593, Princeton NJ 08540.

International Baccalaureate (IB).

Ohio University will award up to 12 quarter hours credit for each IB higher level examination graded 5 or above. Credit will not be awarded for subsidiary examinations. An official transcript of results received is required for credit consideration. For further information, contact the Office of Admissions.

Experiential Learning and Course Credit by Examination. You also may be able to earn credit without attending formal classes through two programs offered through the university's Office of Lifelong Learning: Experiential Learning and Course Credit by Examination. Experiential Learning allows you to acquire credit for college-level experience gained through work, volunteer activities, or hobbies by compiling a portfolio of learning that is reviewed by an appropriate university faculty member and assigned a credit value. Course Credit by Examination allows you to study or review a given subject on your own. You are tested on the subject within six months of enrollment. A letter grade is assigned and credit awarded based on your performance on the examination. Further information on Experiential Learning is available from Adult Learning Services, telephone 740-593-2150; further information on Course Credit by Examination is available from the Office of Independent Study, telephone 740-593-2910. (See also the Office of Lifelong Learning section of this catalog.)

Credit for Armed Forces Courses. Some courses provided by the armed forces may earn college credit. The *Guide to the Evaluation of Educational Experience in the Armed Services*, published by the American Council on Education, is used to determine what credit might be granted. Blanket credit is not granted for military service, nor is credit granted for the Military Occupation Specialty (M.O.S.). Transcripts from the Community College of the Air Force or the Army/American Council on Education must be submitted for credits from Air Force and Army schools. To request credit for training from other branches of the military, submit a notarized copy of the relevant certificate or diploma.

Credit for Training Programs. Some courses offered by business and professional organizations are considered the equivalent of college courses, and you may receive transfer credit, subject to department or school approval, by presenting transcripts or certificates of completion from the training program. The *National Guide to Educational Credit for Training Programs*, published by the American

Council on Education, is used to determine what credit can be granted.

Transferring Credit

All college-level credit earned with a grade of C- or higher at a regionally accredited institution is accepted as transfer credit at Ohio University and can be used to satisfy degree requirements in the same manner as credit completed at Ohio University. Remedial courses are not transferable.

Normally, courses in which you have earned a grade of D or lower are not acceptable for transfer. However, a course with a D grade will transfer if it meets two conditions: if the course was a specific prerequisite (as stated in the previous school's catalog) for a later course that you took *in the same department*, and if you earned a grade of C- or better in that later course. If you have coursework that meets these conditions, contact the Office of Admissions to arrange to receive credit.

All grades for transfer credit are converted on your academic record to either a T grade symbol (if credit has been equated to a specific Ohio University course) or a U symbol (if credit has not been equated.) The number of transferable quarter hours of credit is recorded on the academic record, but the grades you earned are not recorded. As a result, if you are a transfer student, you enter Ohio University with no g.p.a. on your academic record. However, your overall g.p.a. earned at other institutions may be considered part of the criteria for admission into certain programs.

Shortly after you have been accepted for admission as a transfer student, the Office of Admissions will send a tentative transfer credit evaluation report.

The Transfer Module. The transfer module was established by the Ohio Board of Regents to help you avoid course requirement duplication when you transfer and to smooth the process of transferring from one Ohio institution to another. It is a means by which you can complete a "core set" of courses at one institution and transfer them as a unit to meet the requirements of the receiving institution.

If you have enrolled at one college or university with the intention of transferring to another institution at a later date, you should identify the receiving institution as soon as possible so that you can insure the applicability of your current coursework to the general graduation requirements of the institution where you will be transferring.

In general, the transfer module is a set of courses (54–60 qtr. hrs. or 36–40 sem. hrs.) that most Ohio institutions have agreed upon as basic to a university-level education. The set includes English composition, mathematics, fine arts, humanities, social sciences, behavioral sciences, natural sciences, physical sciences, and interdisciplinary topics. A transfer module completed at one college or university will transfer in its entirety to the receiving institution once you are accepted. Although the transfer module will meet many general requirements, you may be required to complete additional coursework.

Since some independent colleges and universities in Ohio do not participate in the transfer module policy, check to see if the institution where you are currently enrolled has an agreement regarding the transfer module with the institution to which you plan to transfer.

Consideration for Transfer Module Admission. The following guidelines govern transfer module admission:

- 1** If you have completed the transfer module at another institution with an overall g.p.a. of 2.0 or higher and either the Associate of Arts or the Associate of Science degree, you may be given *preferential consideration* for admission. You will be able to transfer all courses in which you received a grade of D or better.
- 2** If you have completed the transfer module at another institution with a grade of C- or better in each course and have completed 90 quarter hours or 60 semester hours, you may also be given *preferential consideration* for admission, but only courses in which you have earned a C- or better will transfer.

3 If you have completed the transfer module at another institution with a grade of C- or better in each course and have completed fewer than 90 quarter or 60 semester hours, you will be given *nonpreferential consideration* for admission. Only courses in which you have earned a C- or better will transfer.

Transfer Module Recommendations for Transferring to Ohio University.

If you are currently enrolled at another institution but plan to transfer to Ohio University, the following general guidelines for your first two years of coursework should be used in fulfilling the 54–60 quarter or 36–40 semester hours required by the transfer module:

- 1** A minimum of five quarter hours of English composition courses, with an emphasis on written composition.
- 2** A minimum of three quarter hours of mathematics or quantitative skills.
- 3** A minimum of nine quarter hours in arts or humanities.
- 4** A minimum of nine quarter hours from two areas in the social and behavioral sciences.
- 5** A minimum of nine quarter hours in the natural sciences, including at least one laboratory science course.
- 6** Additional elective courses to fulfill the 54–60 quarter or 36–40 semester hour requirement.

We recommend that you work closely with the transfer coordinator at both your current institution and Ohio University to ensure that the specific courses you select under these general guidelines will fulfill the major and graduation requirements of the academic program you intend to pursue at Ohio University.

Transfer Module Recommendations for Transferring from Ohio University.

If you are planning to transfer from Ohio University to another institution, the following guidelines should be followed in selecting courses to fulfill the 54–60 quarter hours required by the transfer module:

1 A minimum of five hours of English composition by completing one of the following courses:

English 151, 152, 153

2 A minimum of three hours of mathematics or quantitative skills from the following courses:

Computer Science 220, 223, 230, 231, 238

Math 115, 118, 121, 122, 130, 163A-B, 211, 250, 263A-B-C-D

3 A minimum of nine hours selected from at least two of the following areas:

African American Studies 110, 210, 211, 250

Art 100

Art History 211, 212, 213

Classical Languages in English 234, 235, 236, 237

Comparative Arts 117, 118, 211, 212, 213, 270, 271, 272

English 200, 201, 202, 203, 204, 205, 206, 210

Film 201, 202, 203

History 121, 122, 123

Humanities 107, 108, 109, 117

Music History and Literature 120, 124, 125

Philosophy 101, 130, 160, 216, 231, 232, 235, 240, 250, 260

Theater 171, 270, 271, 272

Women's Studies 100

4 A minimum of nine hours selected from at least two of the following areas:

African American Studies 101, 202

Anthropology 101, 202

Economics 103, 104, 213

Geography 121, 131, 132, 201, 234, 241

History 101, 102, 103, 131, 211, 212, 213

Human and Consumer Sciences 160

International Studies 103, 113, 121

Linguistics 270, 275, 280

Political Science 101, 102, 103, 210, 230, 250, 270

Psychology 101, 273

Sociology 101, 201, 210, 211, 220, 223, 230

5 A minimum of nine hours, including at least one laboratory science course with at least one laboratory meeting each week in addition to lectures, from the following:

Anthropology 201

Astronomy 100, 100D, 140

Biological Sciences 100, 103, 130, 131, 170, 171, 172, 173, 225, 275

Biology 101

Geography 101

Geological Sciences 101, 120, 201, 211, 221, 231, 245, 256, 270, 283

Microbiology 201, 211, 212

Physical Science 100, 100D, 101, 101L, 105, 105L, 140

Physics 201, 202, 203, 210, 251, 252, 253, 272, 273

Plant Biology 100, 100L, 102, 110, 111, 220, 225, 247, 248

6 Additional courses to fulfill the 54–60 hour requirement

We recommend that you work closely with the transfer coordinator at both Ohio University and the institution to which you hope to transfer to ensure that the specific courses you select will fulfill the major and graduation requirements of the academic program you intend to pursue.

Transferring Technical College Credit.

If you have completed an associate's degree from a Board of Regents–approved Ohio college, you will be able to transfer credit for all the general education coursework in which you earned a grade of C- or better. Most programs will allow a limited amount of credit for technical courses. The credits will be applied toward meeting the minimum total credits required for a bachelor's degree at Ohio University. You can arrange to have a preliminary credit evaluation done to determine the applicability of credit you have earned by contacting the transfer unit in the Office of Admissions. Your request should specify the program you wish to enter and be accompanied by a transcript from the institution you are currently attending. Ohio University also has worked out certain credit evaluations with Ohio community and technical colleges that allow you to earn a bachelor's degree at Ohio University

in approximately two years if you continue in the corresponding academic area. For a detailed description of these programs, contact the transfer unit in the Office of Admissions.

Enrollment Medical Requirements

There are no specific medical requirements to fulfill before entering the university—you are not required to have a physical examination, for example. However, some colleges have specific medical requirements for students pursuing certain majors.

If you are a newly enrolled international student or an international student returning after an absence of two or more years, you will need to arrange for a tuberculosis skin test through the Student Health Service on campus.

The university requires full-time students to have major medical insurance and offers an affordable plan for students and their dependents. Information on the insurance plan is included with your registration materials.

Application Deadlines

If you are in high school, we recommend that you apply for admission to Ohio University no later than December or January of your senior year, but you may apply any time after completing your junior year. You should arrange to take the SAT and/or ACT by December of your senior year so that scores can be submitted with your application materials. Although you may enroll for any quarter, we recommend that you enter fall quarter, if possible, because many course sequences begin in the fall.

Certain academic majors, including the Honors Tutorial College and the School of Journalism, have earlier deadlines. Contact the Office of Admissions or refer to the current *Application Bulletin* for further details.

Freshman Application Deadlines.

Applications for other terms are accepted up to one month before the quarter or term begins.

	<i>Applications</i>	<i>Transcripts</i>
Fall	Feb 1	March 1
Winter	Dec 1	Dec 15
Spring	March 1	March 15
Summer	May 1	June 15

Transfer Application Priority Deadlines.

	<i>Applications</i>	<i>Transcripts</i>
Fall	May 15	June 15
Winter	Oct 15	Nov 1
Spring	Feb 15	March 1
Summer	May 1	May 15

International Application Priority Deadlines.

If you are applying from within the United States, you should follow the deadlines noted above. If you are applying from abroad, you should submit your materials four weeks earlier than the above deadlines to allow ample time to complete the process and to apply for a visa from a U.S. Embassy or Consulate. We recommend that you submit all of your supporting materials, including transcripts, well before the application priority date to facilitate the review process.

Campus Visits

The best way to learn about Ohio University is to visit our campus. You are encouraged to arrange a visit through the Office of Admissions, which sponsors information sessions and walking tours of the campus Monday through Friday and most Saturdays (except holidays—see the Academic Calendar section). Tour and information session times are listed on the chart. We ask that you make reservations for campus visits at least a week in advance for weekday visits and at least three weeks in advance for Saturday visits. Please be aware that the university observes several holidays throughout the year during which the Office of Admissions will be closed.

If you would like to speak with a faculty member or college representative in your field of interest, the Office of Admissions will attempt to schedule appointments for you. (These appointments are available Monday through Friday only.)

To arrange a visit, contact the Office of Admissions at 740-593-4100 from 8 a.m. to 5 p.m. eastern time Monday through Friday. For an interactive campus tour, visit the university's Web site at www.ohiou.edu.

Visitors Center. For help in finding your way around Ohio University and Athens, stop at the Ohio University Visitors Center at the corner of Richmond Avenue and Shafer Street. Directions and maps are available, as well as information about the university and community.

Campus visitation schedule

To schedule a visit, contact the Office of Admissions at 740-593-4100.

	9 a.m.	10 a.m.	11 a.m.	Noon	1 p.m.	2 p.m.	3 p.m.
Mon	IS	T	IS	T	IS	T	
Tue		T	IS	T	IS	T	
Wed		T	IS	T	IS	T	
Thu		T	IS	T	IS	T	
Fri		T	IS	T	IS	T	IS
Sat			IS	T			

IS—Information session

T—Campus tour

Schedule of Fees

Ohio Residency Guidelines

Since Ohio University assesses your tuition costs based on your status as an in-state or out-of-state resident, the following general information is included to help you determine your residency status. The complete policy on Ohio Residency is included for your reference in the appendix at the back of this catalog. Further information is also available from the university examiner in the Office of Admissions.

In general, for university fee purposes, if you are a **dependent of your parents**, your residency is determined by theirs. If you are **independent** you may be considered an Ohio resident for university fee purposes if: (1) you have lived in the state of Ohio for the previous 12 consecutive months; (2) you are totally self supported from income you have derived from within the state of Ohio and have subjected that income to Ohio taxation; and (3) you are a resident of the state of Ohio for all other legal purposes (i.e., driver's license, voter's registration, car registration).

If your residency status has changed from out-of-state to in-state, you must file a residency petition (complete with documentation to verify your statements) with the Office of Admissions, and your petition must be approved before a change will be made in your residency status. **Note:** The residency petition must be filed before the last day to register for class in order for it to be effective for that quarter. The university will then make a decision on your residency status. Residency decisions are never retroactive to previous quarters.

1998-99* comprehensive fees for a quarter course load of 11-20 hours, inclusive:

	<i>Ohio Resident</i>	<i>Nonresident</i>
Athens campus	\$1,510.00	\$3,177.00
Regional campuses	1,064.00	2,601.00
Southern campus	980.00	1,022.00

The extra fee for each quarter hour in excess of 20 hours:

	<i>Ohio Resident</i>	<i>Nonresident</i>
Athens campus	\$69.00	\$154.00
Regional campuses	48.00	127.00
Southern campus	48.00	54.00

The fee for each hour of enrollment from 1 to 10 hours, inclusive:

	<i>Ohio Resident</i>	<i>Nonresident</i>
Athens campus	\$139.00	\$304.00
Regional campuses	97.00	250.00
Southern campus	89.00	93.00

Registration Fees

Instructions for paying fees are issued with your registration materials before the opening of classes each quarter. Fees can be paid by a check or money order made out to *Ohio University*. You can pay through the mail or in person at the cashier's office in Chubb Hall if you are enrolling on the Athens campus, or at the regional campus Office of Student Services if you are enrolling on one of the regional campuses.

You must pay your fees by the stated deadlines or risk the cancellation of your registration. Post-dated checks are not accepted, and checks issued to the university and not paid upon presentation to the bank will automatically cancel any receipts given and result in the assessment of penalties.

*1999-2000 fees were not available at time of printing.

Quarterly fees include the instructional fee, the general fee, and the recreational facilities fee. This figure excludes fees for special courses, such as art, aviation, music, and visual communication, which are listed in the quarterly *Schedule of Classes*. Ohio University reserves the right to make, without prior notice, any fee adjustments that may become necessary.

Late Registration Fees

Unless your registration has been delayed by the university, you will be charged a fee for late registration beginning with the third calendar week of each quarter. The fee is \$40 the third week, \$60 the fourth week, \$80 the fifth week, and \$100 the sixth week. The last day to register with a late fee is Friday of the sixth calendar week of the quarter.

Monthly Payment Plan

If you are a full-time student (undergraduate over 10 hours, graduate over 8 hours), you are eligible to sign up for the Monthly Payment Plan. This plan equalizes your academic year's fees into nine monthly payments, with the first payment due in early August. This plan is not a loan program, and there is no interest charge on payments. You must apply for enrollment by mid-June for the coming year, and you are charged a \$50 nonrefundable application fee.

If you withdraw from classes, the refund procedure is based on the assumption that all fees for the quarter have been paid. The refundable amount will be adjusted to recognize any unpaid monthly payments for the current quarter. Contact the Cashier's Office, Chubb Hall 010, telephone 740-593-4128, to obtain an application for the Monthly Payment Plan.

Refund of Fees

University Refund Policy for Withdrawal. Ohio University refunds fees or credits your account 30 days after the date of withdrawal, according to the following schedule:

- 1 If you officially withdraw from the university (cancellation of registration) before the first day of classes, you are entitled to a 100 percent refund of registration fees.
- 2 If you officially withdraw from the university during the first 15 calendar days of the quarter (see the academic calendar), you are entitled to an 80 percent refund if your registration fees were paid in full. If you are on the Monthly Payment Plan, you will have incurred a charge of 20 percent of registration fees, which is subtracted from your registration payments to determine the refundable amount.

Quarterly Room and Board Fees (1998-99)*

\$832	Standard Double
687	Triple
778	Quad
1,023	Single
584	7-Meal Plan
806	14-Meal Plan
860	20-Meal Plan
1,097	Green Card Meal Plan
25	Linen Service

*1999-2000 fees were not available at time of printing.

Other Related Fees (1998-99)*

\$30	Admission application fee, Athens campus (nonrefundable)
20	Admission application fee, regional campus (nonrefundable)
20	Special student application fee (nonrefundable)
10	Reclassification fee from special student to regular student status (Athens campus only)
5	Change of class schedule after second week
5	Duplicate official forms, fee receipts, etc.
40	Late registration fee (plus \$20 per week after third week)
<i>Application for degree</i>	
40	Associate's
40	Bachelor's
40	Master's
50	Doctorate
5	Reapplication for degree
452	Health insurance, annual premium
533	International health insurance, annual premium
50	Monthly payment plan (nonrefundable)
70	Orientation and testing fee
69	Quarterly recreational facilities fee (included in comprehensive fees for full-time students; optional for part-time students)
<i>Parking per quarter</i>	
25	Commuter lot
83	Garage
45	On-campus lot
10	Parking violation
10	Returned check charge (per check)
5	Transcripts
10	ID card replacement
10	Phone reactivation fee
15	Diploma replacement

3 If you withdraw from the university after the first 15 calendar days of classes, you are not entitled to a refund of registration fees.

If you withdraw from the university before full payment of fees is made, you are considered indebted to the university for the amount determined according to the refund regulations. A hold will be placed on your records until your debt is paid.

Refund Policy for Reducing Course Load.

If you drop credit hours before or during the first 15 calendar days of the quarter, you are entitled to receive a 100 percent refund of the reduction when such changes result in a reduction of fees. For example, if you are registered for 11 hours and drop a 5-hour course, you will receive 100 percent of the difference in tuition for dropping from full-time to part-time. However, if you have 15 hours and drop to 11 hours, it does not affect the tuition, because the

standard tuition rate applies to a course load of 11 through 20 hours. Course load reductions made after the 15th calendar day of the quarter will result in no refund. Corrected registration that results in increased hours could increase tuition. Further information regarding the refund of fees can be obtained from the registrar's office.

Pro-Rata Refund Policy. If you receive financial aid and withdraw before the seventh week of your first quarter of attendance, your refund will be computed under a special pro-rata refund policy. You will be assessed university charges (tuition and fees, room and board, etc.) pro-rated on the completed enrollment period up to and including the sixth week of the quarter. If you withdraw after the sixth week of your first quarter of attendance, you will be subject to the non-pro-rata refund policy below.

Non-Pro-Rata Refund Policy. If you are a federal aid recipient and withdraw during a quarter other than your first quarter of attendance at the university, you will have tuition and fees assessed after comparison of the OU refund and federal non-pro-rata refund formulas. The formula providing the greatest refund to the financial aid programs will be used.

If you are receiving financial aid, a change in your enrollment status or your withdrawal from the university may result in your having to repay programs from which you received financial assistance. In addition, you may owe fees to the university after funds are returned to the financial aid programs.

Further information on this process is included under "Refunds and Repayment" in the Financial Aid Information section of this catalog.

Lifelong Learning Fees (1999-00)

\$75	Independent Study courses, each quarter hour
84	Independent Study projects, each quarter hour
40	Course Credit by Examination, each quarter hour
100	External Student status
75	Yearly matriculation fee
150	Adult Learning Services, per assessment (courses 1-6 hours)
40	Administration fee

Schedule of Pro-Rata Refunds

If you withdraw:		School retains this % of your aid:
Before the first day of classes		0%
First week of the quarter		10%
Second week of the quarter		20%
Third week of the quarter		30%
Fourth week of the quarter		40%
Fifth week of the quarter		50%
Sixth week of the quarter		60%
After the sixth week of the quarter		100%

Schedule of Non-Pro-Rata Refunds

If you withdraw:		School retains this % of your aid:
One week before classes begin		0%
Up to 10 percent point in the quarter		10%
Up to 25 percent point in the quarter		50%
Up to 50 percent point in the quarter		75%
After 50 percent point in the quarter		100%

Note: Lifelong Learning fees are not part of the comprehensive fees, nor are the credit hours counted as part of the comprehensive credit hours.

Financial Aid

The purpose of financial aid and scholarships is to supplement your and your family's contributions toward the cost of education, as well as to recognize academic achievement and special talents. Ohio University offers a variety of scholarships, grants, loans, and part-time employment to assist you in financing your education. The Office of Student Financial Aid and Scholarships (OSFAS) is responsible for the processing and awarding of all types of federal, state, private, and institutional (university) funds to students.

Office of Student Financial Aid and Scholarships
Ohio University
020 Chubb Hall
Athens OH 45701-2979
Telephone 740-593-4141 (M-F 9 a.m.-noon, 12:30-4:30 p.m.)
Fax 740-593-4140
E-mail financial.aid@ohio.edu
Web <http://www-sfa.chubb.ohiou.edu>

All information in this section is subject to change due to congressional action or changes in federal regulations.

Types of Financial Assistance

All types of financial assistance fall within two major categories—gift aid and self-help aid. These aid programs may be awarded on the basis of merit, financial need, or a combination of both. Scholarships are considered merit awards; other types of aid are based on an analysis of your and your family's ability to contribute to the cost of education. Scholarships and grants do not have to be repaid; loans, however, must be repaid by the borrower.

Gift Aid

Scholarships. Ohio University has an extensive undergraduate scholarship program available to freshmen, upperclass (sophomore, junior, and senior), and in a few cases, graduate students. Scholarships are awarded on a competitive basis for academic achievement and special talent, as well as on the basis of geographical residence and area of study. Financial need is not always a prerequisite.

Grants. Grants are considered gift aid that you do not have to repay. Most grant aid is based on some type of need-based eligibility criteria. The sources may vary from state, federal, private, and institutional funds, so you are encouraged to actively seek out all sources.

Self-Help Aid

Loans. Student loans play a significant role in financing post-secondary education. Ohio University participates in the William D. Ford Federal Direct Student Loan Program, which allows students to borrow directly from the federal government through Ohio University. Educational loans have favorable terms and conditions, so you should view borrowing as an investment in your future. However, loans represent debts that must be repaid, and failure to repay will result in severe penalties.

Employment. Student employment (on- and off-campus) is a viable alternative to borrowing for many students. Ohio University has a variety of student employment programs available to provide self-help aid if you wish to work on a part-time basis while pursuing your education. You should attempt to establish a reasonable balance between your academic efforts and your work schedule. Consequently, you may not work more than 20 hours a week when classes are in session. Ohio University is an equal opportunity and affirmative action employer. The Student Employment Office (SEO), part of the OSFAS, reaffirms the university's commitment to the policy that no employer

may discriminate on the basis of race, sex, creed, ethnic origin, or handicap in employment practices. There will be no discrimination because of age, except as governed by state and federal laws and guidelines. (See "Affirmative Action" in the Services for Students section of this catalog.)

Application Procedure

To apply for any of the five federal need-based financial aid programs (Federal Pell Grant, Federal Supplemental Educational Opportunity Grant, Federal Work Study, Federal Perkins Loan, and William D. Ford Federal Direct Student Loan), the Ohio University Grant (OUG), the Ohio University Access Grant (OAG), and the Ohio Instructional Grant (OIG), complete the U.S. Department of Education Free Application for Federal Student Aid (FAFSA) or FAFSA on the web at www.fafsa.ed.gov. You can obtain FAFSA forms from any high school, college, or university, or from the OSFAS, after January 1. **We recommend that you mail your form to the central processor by February 15 in order for your FAFSA results to be received by the university before the March 15 priority deadline.**

Three of the five need-based aid programs (Federal Work Study, Federal Perkins Loan, and the Federal Supplemental Educational Opportunity Grant) are called campus-based aid (CBA). Campus-based aid is awarded differently from the Federal Pell Grant and the Federal Direct Student Loan in that CBA funds are sent directly to the university from the federal government. The funds are then awarded by the aid administrator using federal eligibility criteria. Funding for these programs and for institutional grants is limited; therefore, priority is given to those students who demonstrate the highest financial need and who meet Ohio University's priority date of March 15.

The CBA priority deadline (i.e., the date by which the FAFSA need analysis must be on file at Ohio University) is March 15. Even if you do not meet this deadline or the eligibility criteria, we recommend that you complete the application process for other types of assistance that do not have a priority deadline,

such as the Federal Pell Grant or the Federal Direct Student Loan.

Federal regulations and institutional policies are subject to change without prior notice. The OSFAS will attempt to keep you updated through various media on campus, the OSFAS Web site, student e-mail, and written notices. To avoid costly delays, it is vital to update your permanent and local addresses with the registrar's office or through the OSFAS.

Need-Based Financial Aid

Ohio Instructional Grant (OIG).

If you are an Ohio resident, you are encouraged to apply for the OIG by completing the FAFSA or Renewal Application. October 1 is usually the deadline for applying for the OIG, although you should apply as early as possible—ideally by March 15—to meet priority deadlines. If you are eligible, you will receive a notice of eligibility directly from the Ohio Board of Regents.

Federal Pell Grant. After you complete the FAFSA, you will receive a Student Aid Report (SAR) from the U.S. Department of Education's Central Processor. It will tell you if you qualify for a Federal Pell Grant. Retain the SAR for your records. If you must correct the data on your SAR, enter the corrections in the appropriate space and forward the corrected SAR to the OSFAS, which will send the corrections electronically to the Central Processor. You will receive a corrected SAR within 4-6 weeks. Retain the corrected SAR for your records.

William D. Ford Federal Direct Student Loan (FDSL). You will be notified about your eligibility for a FDSL on an award letter. You must sign a promissory note and complete entrance counseling (if you are a first-time borrower) before the loan process can be completed. Once the process is completed, loan proceeds will be credited to your account at the opening of each term. You must also complete borrower information counseling prior to completion of your program or if you withdraw. Loan overages (refunds) are mailed at the beginning of each quarter and weekly thereafter. All financial aid

checks are mailed to local addresses on file with the registrar's office. An e-mail message is sent to loan recipients when loan credits are applied to their account.

Merit-Based Financial Aid

Freshman Scholarships. There is no application for freshman scholarships at Ohio University. Simply complete the Application for Admission and Scholarships from the *Application Bulletin*. Eligible applicants are considered for all scholarships.

If you wish to be considered for certain endowed scholarships, you must also complete the Free Application for Federal Student Aid (FAFSA) and have the results on file by March 15. If you plan to enter the College Of Fine Arts, you also will be evaluated by interview and portfolio or audition.

If you receive a scholarship, you are required to enroll for a minimum of 16 credit hours a quarter during your freshman year.

Upperclass and Transfer Student Scholarships (Undergraduate).

You can apply for Deans Scholarships and other upperclass scholarships by completing Ohio University's electronic scholarship application. The eligibility requirements for upperclass scholarships include: an accumulative g.p.a. of 3.4 or above by the end of winter quarter of the application year; at least 32 credit hours earned during the fall and winter quarters of the application year; and at least 48 credit hours earned by the end of spring quarter. You also must have completed at least two quarters at Ohio University.

To apply for an upperclass scholarship, complete the electronic scholarship application through the OSFAS Web site or OAK student e-mail. Complete instructions are available at OSFAS and in the Computer Services labs. The application deadline is the last day of winter quarter final exams.

All transfer students will automatically be considered for scholarships awarded by the Office of Admissions based on the transcripts submitted for review. No separate application is required.

If you receive a scholarship, you are required to enroll for a minimum of 16 hours per quarter.

Regional Campus Scholarships.

Freshman and upperclass scholarship applications are available at each regional campus. Return your scholarship application to the Office of Student Services on your regional campus. Beginning with the 1998-99 year, upperclass students will be strongly encouraged to file their applications online. The criteria are somewhat different from those for the Athens campus, and the deadline for returning the application is April 1. Pay particular attention to the guidelines and application procedures on the scholarship application.

College Cost (Budget)

Each year, the Ohio University Board of Trustees determines the fixed costs (tuition and fees, out-of-state surcharge, and room and board rates on campus) for you. Variable indirect costs (books and supplies, travel, and personal and miscellaneous) are estimated by the OSFAS to arrive at a reasonable estimate of the total cost for the academic year (three quarters). If you attend all four quarters (summer sessions constitutes the fourth quarter), an adjustment is made to include the additional costs. Estimates are based on the Consumer Price Index and periodic local surveys on housing and food costs. The total fixed and variable costs make up your total cost (budget) for the academic year. Final annual budgets are available from the OSFAS after July 1 of each award year.

Determining Need

The Federal Methodology (FM) is the calculation used by the federal government to measure your eligibility for assistance. All federal aid programs require that you show need after the income and (in some cases) assets of your family, as indicated on the FAFSA, have been analyzed. The OSFAS uses the need analysis information from the FAFSA or Renewal Application to determine the amount you and your parents are expected to contribute toward your education. Consideration is

given to your and your parents' adjusted gross income, assets, taxes paid, number of dependents, number attending college, and other factors as appropriate.

The FM performs a separate analysis of income when (a) your parents' adjusted gross income is less than \$50,000 a year and your parents were eligible to file a 1040A or 1040EZ tax form, or (b) your parents do not file a tax form with the IRS. Special circumstances such as divorce, separation, unemployment, or death in the family should be discussed with a financial aid administrator to determine if adjustments should be made to the FM calculation. The combination of your contribution and your parents' contribution results in the Expected Family Contribution (EFC). This value can be found on your Student Aid Report.

If you are independent, you (and your spouse, if applicable) are expected to assist in meeting your educational costs. Your expected contribution is calculated from the previous year's earnings, untaxed income, and a percentage of personal savings and assets. The following formula is used for calculating financial need:

$$\begin{array}{r} \text{Cost of Education (Budget)} \\ - \text{Minus Expected Family Contribution} \\ \hline = \text{Calculated Financial Need} \end{array}$$

Eligibility Requirements

To receive Title IV federal aid (Federal Pell Grant, Federal Direct Student Loan, Federal Work Study, Federal Supplemental Educational Opportunity Grant, or Federal Perkins Loan), you must:

1 Be a U.S. citizen, a national or permanent resident of the U.S., or be in the U.S. for other than a temporary purpose. (If you are a citizen of the Marshall Islands, the Federated States of Micronesia, or Palau, see a financial aid administrator.) If you are a permanent resident, you may be required to provide a copy of your INS document card before being awarded aid.

2 Comply with U.S. Selective Service registration requirements.

3 Be enrolled or accepted for enrollment in a degree program. Certificate programs or preparatory coursework cases should be discussed with a financial aid administrator.

4 Be making satisfactory academic progress as defined by Ohio University and the OSFAS. (See Satisfactory Academic Progress Standards.)

5 Not be in default on a Federal Perkins Loan, a Federal Educational Family Loan (formerly the Guaranteed Student Loan), Federal Direct Student Loan, or Federal Supplemental Loan for Undergraduate Students (SLS), from any school, agency, or lender, or owe a repayment on any Title IV funds. (Parents also must not be in default if applying for a PLUS loan.)

6 If you are a mid-year transfer student, you must submit a copy of your financial aid transcript from colleges attended during the current school year (beginning with the summer term).

7 Have a valid Social Security number.

Some types of financial aid (e.g., Federal Pell Grant, Federal SEOG, and OIG) are not available if you have already earned a bachelor's degree.

Award Package

After the FAFSA need analysis electronic results and other requested documents have been received, reviewed for accuracy, and verified (if applicable), an award package is offered to all eligible applicants. The award package can be a combination of merit scholarships; institutional, state, and federal grants; employment; and loan assistance. Not all students receive all types of financial aid, but in general the OSFAS attempts to balance gift aid (grants and scholarships) with self-help aid (employment and loans) within the limits of available funds and the eligibility and need of the applicants. If you meet the March 15 priority deadline, you may receive a more attractive package than if you apply later.

Award Letters

Notification of specific award offers will be sent to all applicants since all applicants are eligible for some form of aid. Award letters will be sent by U.S. mail to your permanent or local address. If you are adjusting or declining any of the awards, you must return the award letter indicating the changes to the OSFAS. All awards are subject to revision due to changes in federal allocations, student eligibility (EFC), clerical errors, failure to provide requested documents, or other circumstances beyond our control.

Award Disbursements

Federal aid recipients must be officially enrolled in a degree-granting program to receive any type of financial assistance. All requested documents (e.g., income tax returns, W-2's, or financial aid transcripts) used in verifying the data provided on the FAFSA must be received by the OSFAS before federal financial aid can be disbursed. Disbursement dates and procedures will vary depending on the type of awards offered. Specific dates and information regarding the disbursement of financial aid are listed in each quarter's *Schedule of Classes*. In general, financial aid awards will be credited to your account each quarter, and total financial aid credits greater than your university charges will be mailed to your local address. Refunds (overages) from your student account are mailed on the first day of classes each term and, thereafter, on a weekly basis.

All FDSL borrowers must complete borrower information counseling (BIC) upon completion of 150 undergraduate hours toward a bachelor's degree or 60 hours toward an associate's degree. Aid may be delayed until the OSFAS has evidence that you have completed BIC.

Federal Work Study awards are not credited to your account because these awards must be earned before being paid. You will be paid by check or direct deposit every two weeks.

Please note the payment due dates in the billing statement from the Bursar's Office. (See the *Schedule of Classes* each quarter for specific

disbursement dates.) If you will be away from campus in a student teaching program, co-op, or study abroad, contact the OSFAS well in advance to discuss your eligibility and arrange for disbursement of your financial aid.

Refunds and Repayments

If you are entitled to a refund under the university's refund policies and you receive any Student Financial Aid (SFA) funds (excluding Federal Work Study, Byrd, or Douglas Scholarships), you may be required to return all or a portion of that refund to the appropriate SFA program according to a formula defined by federal regulations. If, after receiving any financial aid in the form of a cash payment for noninstitutional costs, you withdraw, drop out, or are expelled, you may be required to repay a portion or all of that aid to the appropriate program. If financial aid is credited to your account and you withdraw, some or all of this money may be returned to the financial aid programs. It is possible that you will owe the university for tuition and fees incurred while you were enrolled.

Refund Policy

If you withdraw from the university, you may be eligible for a refund. However, if you withdraw from the university after you have received student financial aid, you may be required to return all or a portion of the financial aid to the appropriate financial aid programs. (You can pick up a copy of the refund policy and examples in the OSFAS, or see the Schedule of Fees section.)

Distribution Policy

If it is determined that a portion of your eligible refund of university charges consists of student financial aid, Ohio University's policy is to return the Student Financial Aid portion of the refund to programs in the following priority order:

- 1 William D. Ford Federal Direct Unsubsidized Loan
- 2 William D. Ford Federal Direct Subsidized Loan
- 3 William D. Ford Federal Direct Parent Loan

- 4 Federal Perkins Loan
- 5 Federal Pell Grant
- 6 Federal Supplemental Educational Opportunity Grant
- 7 Ohio Instructional Grant

Refunds to other aid programs will be prioritized as follows:

- 1 University scholarships and grants
- 2 Other student aid programs

Repayment Policy

If you withdraw and receive a cash disbursement of student financial aid for noninstitutional charges, you may be required to repay all or a portion of the student financial aid to the appropriate financial aid program. The following policies are used in determining the amount you are to repay.

- 1 Noninstitutional housing and board costs are prorated based on the number of weeks you were enrolled in the quarter.
- 2 One-third of the academic year allowance for books and supplies is considered to be expended if you began classes.
- 3 Transportation and personal and miscellaneous expenses are prorated based on the number of weeks you were enrolled in the quarter.

If it is determined that you are required to return all or part of the student financial aid disbursed to you, it will be returned to the appropriate programs in the priority order listed above.

Satisfactory Academic Progress (SAP) Standards

Federal regulations require that all financial aid recipients meet Ohio University's satisfactory academic progress standards: (1) minimum credit hours earned for the appropriate enrollment status (full time, three-quarter time, half time, or less than half time); (2) maximum time frame during which a degree or certificate must be granted; and (3) minimum 2.0 accumulative g.p.a.

Minimum credit hour standards require you to earn a minimum number of hours based on your enrollment status. As an undergradu-

ate student, you are required to earn 12 hours if you are enrolled full time; 9 hours if you are enrolled three-quarter time; 6 hours if you are enrolled half time; and all hours attempted if you are enrolled less than half time. Maximum time-frame (MTF) standards are determined by your enrollment status. Full-time enrollment (12 hours or more) is equal to 1 MTF quarter. Three-quarter time enrollment (9 to 11 hours) is equal to .75 MTF quarter. Half-time enrollment (6 to 8 hours) is equal to .5 MTF quarter. Less than half-time enrollment is prorated accordingly. You are eligible to receive any aid for which you qualify up to 18 MTF quarters. Once your MTF total reaches 18, you are no longer eligible to receive Title IV and selected other types of financial assistance.

If you are a first-time federal aid recipient, you must earn a minimum 2.0 accumulative g.p.a. by the end of your second academic year of enrollment. If you are a continuing aid recipient, you must maintain a minimum 2.0 g.p.a. If you are a transfer student, hours accepted by Ohio University will be included as part of the maximum time frame toward the completion of a degree or certificate and as part of the minimum credit hour component of SAP. If you are re-enrolling, your prior Ohio University hours are considered in determining satisfactory academic progress. If you attend summer sessions, you will have the time frame, hours attempted, and g.p.a. counted for that quarter. In the event of repeated courses, only the final hours count toward the completion of a degree or certificate, but courses count toward both the minimum credit hour component and the maximum time frame component of SAP each time they are taken. Proper withdrawal from classes prior to the 14th day of enrollment will not affect the fulfillment of the requirements, but attempted hours after the 14th day of enrollment will be counted.

You will be notified annually if your SAP status is other than satisfactory after spring quarter grades are recorded. If you are placed on warning status, you are considered on probation for financial aid purposes for the following academic year. During this probationary period you remain eligible to receive any

financial aid for which you qualify. Your SAP status is reviewed again in the next annual review, which takes place after spring quarter. Students in warning status will not have their aid packaged for the following year until they are found to be in "satisfactory" SAP status during the annual review in June. If you still do not meet SAP standards when you are reviewed again, you are placed on unsatisfactory status and are not eligible to receive federal financial aid for that academic year. You may appeal the decision if your failure to meet SAP criteria was due to mitigating circumstances. Appeal forms are available in the OSFAS and must be submitted by the 10th day of classes for the quarter in which the appeal is sought.

If you are placed on warning status and decide to attend summer sessions, you should be prepared to do so at your own expense. Summer classes will have been in session for three to four weeks before the SAP annual review; therefore, your SAP status may become unsatisfactory for the summer term and you would be ineligible for financial aid for that session.

Eligibility and Renewal Criteria for Scholarships

If you receive scholarship aid, you must meet the following requirements before you can be considered for renewal (if your scholarship is renewable) or be considered an eligible applicant for nonrenewable scholarships:

Hours Requirement. If you receive scholarship aid while attending the Athens campus, you must earn at least 16 credit hours for each quarter during the academic year for which you receive funds. Students with disabilities or those experiencing extenuating circumstances who are therefore unable to carry the 16-hour course load should contact the associate director for scholarships to submit an appeal. If you attend a regional campus and receive a regional campus scholarship, you must earn at least 12 credit hours for each quarter during the academic year for which you receive the award.

G.P.A. and Hour Requirements for Renewable Scholarships. To renew the Distinguished Scholar, Third Century, John Newton Templeton, Thurgood Marshall, and Presidents Scholarships, you must have an accumulative minimum g.p.a. of 3.3 at the end of the spring quarter of the award year. You must earn 48 hours during the award year.

National Merit Scholarships and outside agency scholarships have different g.p.a. requirements, set by the National Merit Corporation and outside agencies respectively. Academic requirements for regional campus scholarships vary. Contact the Office of Student Services at your campus for further information.

Descriptions of Available Aid

Gift Aid—Scholarships

Below is a listing of some of the scholarships offered at Ohio University. A complete listing of all scholarships is available on the OSFAS Web site.

Distinguished Scholar Scholarships. These scholarships, valued at the cost of in-state tuition and fees, are renewable for up to three years of undergraduate study and are awarded to incoming first-year students. All freshmen with an ACT of 33 or higher or an SAT of 1460 or higher who graduate in the top 10% of their class will receive this award. To renew the award, you must be an undergraduate, maintain a 3.3 accumulative g.p.a., and earn 48 credit hours a year. Recipients must carry at least 16 hours each quarter to receive the award.

Third Century Scholarships. These scholarships, valued at the cost of in-state tuition and fees, are renewable for up to three years of undergraduate study and are awarded to incoming first-year students. To renew the award, you must be an undergraduate, maintain a 3.3 accumulative g.p.a., and earn 48 credit hours a year. Class rank and ACT or SAT scores, interviews, and auditions are among the selection criteria. Recipients must carry at least 16 hours each quarter to receive the award.

John Newton Templeton Scholarships. This scholarship is awarded to incoming freshmen from under-represented groups. It is valued at the cost of in-state tuition and fees and is awarded based on such criteria as class rank, g.p.a., and ACT or SAT scores. It is renewable for three additional years of undergraduate study if you maintain a 3.3 accumulative g.p.a. and earn at least 48 credit hours a year. Recipients must carry at least 16 hours each quarter to receive the award. For further information, contact the Office of Admissions.

Presidents Scholarships. Awarded to incoming first-year students, these four-year renewable undergraduate scholarships are valued at \$2,500 a year. To renew the award, you must maintain a 3.3 accumulative g.p.a. and earn 48 credit hours a year. Class rank and ACT or SAT scores, interviews, and auditions are among the selection criteria. Recipients must carry at least 16 hours each quarter to receive the award.

Provosts Freshman Scholarships. These one-year nonrenewable scholarships are valued at \$1,000 to \$2,000 and are awarded to incoming first-year students. Criteria for selection include class rank, ACT or SAT scores, interviews, and auditions. Recipients must carry at least 16 hours each quarter to receive the award.

Deans Scholarships. These scholarships are one-year awards, valued at \$1,000 to \$2,000, for upperclass students and transfer students who have earned more than 48 credit hours. Selection is based on undergraduate enrollment, hours earned, and accumulative g.p.a. You must reapply and compete annually for renewal. To be considered, you must have a 3.4 g.p.a. after winter quarter, have earned 32 hours during fall and winter quarters, and be projected to earn 48 credit hours for the year. Recipients must carry at least 16 hours each quarter to receive the award.

Special Talent Awards. If you have exceptional talent in art, dance, forensics, music, or theater, you may receive a Provosts Scholarship (first-year) or Deans Scholarship (upperclass) for that talent. Contact the respective department for additional information. You must reapply annually.

Recipients must carry at least 16 hours each quarter to receive the award.

Cutler Scholars Program. This endowed undergraduate scholarship program provides tuition, fees, and room and board for the academic year, as well as funds for a structured summer internship or related experience. The first scholarships were awarded for the 1996–97 academic year and are renewable for three years of undergraduate study. Students do not apply but are nominated by their high school or an Ohio University alumni chapter. Students selected for the program are evaluated against rigorous standards and must excel both in and out of the classroom. Awards are limited to students from certain locations or high schools, or to those in specific fields of study. Recipients must carry at least 16 hours each quarter to receive the award. Contact the executive director of the Cutler Scholars Program, Trisolini Gallery 210, Ohio University, Athens OH 45701-2979; telephone 740-593-4266.

Corporate Scholarships. Available to students majoring in specific academic areas (engineering, business, sciences) on the basis of high academic achievement. Eligibility requirements normally include high academic achievement and demonstrated financial need, and you must reapply annually for renewal. These awards range from \$300 to \$2,000 a year. Recipients must carry at least 16 hours each quarter to receive the award.

Endowed Scholarships. Available to students with high academic achievement and demonstrated financial need, these scholarships are made available from contributions of alumni and friends of Ohio University and are usually restricted by geographic location, major, or other special criteria. Awards range from \$150 to \$3,000 a year. Recipients must carry at least 16 hours each quarter to receive the award.

National Merit Scholarships. These scholarships are awarded to National Merit finalists who indicate Ohio University as their first-choice institution. National Merit Scholarships are renewable for three

additional years of undergraduate study with awards ranging in value from \$750 to \$2,000, depending on financial need.

Reserve Officers' Training Corps Scholarships. Scholarships ranging from one to four years are available on a competitive basis for qualified students participating in the Air Force (Aerospace Studies) or Army (Military Science) ROTC programs. These scholarships pay costs of tuition, lab fees, and a flat rate for books. In addition, you receive a subsistence allowance at the rate of \$150 a month for the period the scholarship is in effect. Contact the Department of Aerospace Studies or the Department of Military Science.

Gift Aid—Grants

Federal Pell Grant. The Federal Pell Grant is a quasi-entitlement program from the federal government, which means that all eligible undergraduate aid applicants who have not received a bachelor's degree will receive funds based on their expected family contribution, enrollment status (full time, three-quarter time, half time, or less than half time), and the cost of education. Upon submission of a FAFSA or Renewal Application, you will receive a Student Aid Report (SAR) indicating the Expected Family Contribution (EFC). Awards range from a minimum of \$400 to a maximum of \$3,125 (subject to change according to congressional appropriations). The Federal Pell Grant serves as the foundation upon which all other aid may be added, but ineligibility does not automatically exclude you from all other types of financial aid.

Federal Supplemental Educational Opportunity Grant (SEOG). The Federal SEOG is awarded to undergraduate students on the basis of exceptional financial need beyond the Federal Pell Grant. These funds are awarded directly by the university and are limited to the funds allocated to the university by the U.S. Department of Education. You must complete the FAFSA or Renewal Application by the March 15 priority deadline and have demonstrated financial need. Preference is given to Federal Pell Grant recipients. The amount awarded to eligible applicants varies each year depending on the needy student

population enrolled at Ohio University. Students with a prior bachelor's degree are ineligible.

Ohio University Grants. These institutional grants are made available by the university to supplement the limited Federal SEOG funds for needy undergraduate students or students with special circumstances. You should complete the FAFSA by the March 15 priority deadline and have demonstrated financial need.

Ohio Instructional Grant (OIG).

The OIG is a need-based state-funded grant to assist Ohio residents in meeting the cost of undergraduate education. To be considered, submit the FAFSA or Renewal Application. The deadline is October 1 of the award year, but you are encouraged to apply as soon as applications are available in early January. You will receive a notice of eligibility from the Ohio Board of Regents.

Self-Help Aid—Student Loans

Federal Perkins Loan. The Federal Perkins Loan is a federal loan for students enrolled in a degree program at a participating post-secondary institution. No interest is charged while you remain in school, and the repayment period begins nine months after you graduate or leave school. To apply, file the FAFSA or Renewal Application. The interest rate is currently five percent, and loans can be included under the loan consolidation provisions of the Reauthorization Act. You must sign a promissory note before a disbursement of cash or credit can be made.

William D. Ford Federal Direct Student Loans (FDL). The Federal Direct Loan is a low-interest loan for students enrolled at least half time in a degree program. Since 1994–95, Ohio University has been a Direct Lending Institution. The university acts as the lender on behalf of the U.S. Department of Education and disburses William D. Ford Federal Direct Loan and PLUS funds directly to student accounts. The university will not process loan applications from lending institutions such as banks.

There are two kinds of Federal Direct Loans—subsidized and unsubsidized. The federal government will pay the interest on the Federal Direct Subsidized Loan while you are in school and during a grace period or deferment period. You are responsible for paying the interest on any Federal Direct Unsubsidized Loan. However, you may defer payments and capitalize the interest until you enter repayment.

If you wish to apply for a Federal Direct Loan (subsidized or unsubsidized), you must file the FAFSA or Renewal Application to determine your eligibility. The Federal Direct Unsubsidized Loan is available if you do not qualify for the Federal Direct Subsidized Loan or if your eligibility for subsidized funds is limited. You will receive notice of eligibility on your award letter and must sign a promissory note before funds can be credited to your account. Funds credited in excess of charges will be refunded by the bursar at regular intervals during the quarter. All first-time borrowers are required by federal regulations to complete entrance loan counseling (ELC) before funds can be disbursed. If you are in repayment on prior loans, you may be eligible for a deferment, and loans can be consolidated under certain conditions. Additionally, federal regulations require that all borrowers complete borrower information counseling (BIC) before graduating or dropping below half-time enrollment. BIC provides information regarding borrower rights and responsibilities and outlines repayment options.

Ohio University Loans. During periods of enrollment, funds are made available by the university to provide short-term emergency loans for students. These loans are available to assist in the payment of university bills and educationally related expenses, provided you are enrolled at least half time and have a guaranteed source of repayment that will be available by the end of the same quarter. A one-page application must be completed. The completed application will be reviewed to

determine if you qualify for a short-term emergency loan. Checks are generally available within eight working days after the loan is approved. A personal interview with a financial aid administrator may be required. You are not eligible if you are in default of previous institutional or federal loans. Borrowers are charged a \$5 processing fee and may be charged an interest rate of nine percent. Ohio University loans are not available during periods of nonenrollment.

William D. Ford Federal Direct Parent Loan for Undergraduate Students (PLUS). The Federal Direct PLUS Loan is a supplemental loan for parents of dependent undergraduate students. Your parent(s) must be your natural, adoptive, step parent(s), or your legal guardian(s). Parent borrowers are subject to a credit check and must not have an adverse credit history. We require that you and your parent(s) file the FAFSA or Renewal Application to determine eligibility for other sources of aid. Federal Direct PLUS Loan applications can be obtained from the university. The Federal Direct PLUS Loan must be used for your educational expenses. Loan proceeds are applied directly to your account, and any overage may be refunded to you (with parent approval) or to your parent at term intervals throughout the year. Repayment begins 60 days after the final disbursement. For additional information, request the U.S. Department of Education's Direct Loans brochure at the OSFAS or see the OSFAS Web site.

Self-Help Aid—Employment

Federal Work Study (FWS). This need-based federal program allows you to earn a portion of your educational expenses through part-time employment. Whenever possible you are placed in a position that coincides with your career interests or academic major or in a community service position. You are paid at least minimum wage for the number of hours actually worked. Most students are eligible to work approximately 10 hours a week and are paid by check every two weeks. If you are new to FWS, you must report to the OSFAS at the opening of the quarter

to receive your work assignment; returning students report directly to their department. Five percent of Ohio University FWS positions must meet the definition for community service, and you may apply for available community service positions. The federal government stipulates that jobs available under the FWS program may not displace presently employed persons or fill regular job openings, including student employment.

Program to Aid Career Exploration (PACE). The PACE program, co-sponsored by the OSFAS and Career Services, is unique to Ohio University. The intent of the program is to provide you with the opportunity to earn money to help meet educational expenses while gaining career-oriented work experience. PACE students earn \$540 a quarter for no more than 100 hours of work. To be eligible for PACE employment, you should:

- 1 Be an undergraduate
- 2 Have earned at least 30 hours at time of application
- 3 Have at least a 2.3 accumulative grade point average
- 4 Be in need of earnings as defined by the OSFAS.

PACE employment is available only to Athens campus students who are enrolled full time and not simultaneously employed in FWS. PACE information and applications are available on the OSFAS Web site.

Centralized Student Employment Service (CSES). Ohio University established the CSES to provide job opportunity information for all students enrolled at least half time. Its purpose is to assist in hiring students for part-time jobs, to maximize employment opportunities and job placement, and to help coordinate student employment policies and procedures. CSES job opportunities are posted from all hiring departments at the Athens campus as well as off-campus employers.

Job listings appear on a board outside 020 Chubb Hall and on the OSFAS Web site, <http://www-sfa.chubb.ohiou.edu> Employment opportunities for students are posted when new positions become available and when vacancies occur. You will be referred to potential employers for interviews and hiring decisions. Because the job

posting service is centralized, you are assured an equal opportunity to apply for jobs. Most international students are eligible to use the CSES.

Job Location and Development (JLD). To assist students with finding off-campus positions, free job listings from community businesses and individuals are made by the OSFAS. Students who are enrolled at least half time may receive referrals to these off-campus job opportunities.

Postings are frequently made for summer and quarter-break jobs. OSFAS also hosts an annual Summer Camp-Resort Job Fair in March, which attracts recruiters from 50 camps and resorts in Ohio and the eastern United States. Admission is free, and 150 to 200 Ohio University students are employed by the camps each summer.

Services to Students

The OSFAS is open from 9 a.m. to 4 p.m. Monday through Friday. All financial aid applicants are assigned a counselor to assist with financial aid matters. You may schedule an appointment with your assigned counselor during OSFAS service hours. Counselor assignments are made alphabetically according to last name and are listed on the OSFAS Web site. Services provided by the counselors include confirmation of financial aid for preregistration, review of financial need and eligibility, and review of policies and procedures for different types of financial aid programs. Emergency situations may be accommodated immediately on a case-by-case basis. To ensure access to services, applicants with disabilities who require special assistance should contact the financial aid office to make arrangements.

Academic Policies and Procedures

Precollege Orientation

As an incoming first-year or transfer student at Ohio University, you will participate in Precollege Orientation. You will meet with faculty, administrators, and other students who will acquaint you with university policies, academic requirements, and student services, as well as help you register for your first quarter classes. Precollege Orientation for fall quarter first-year students is held in one-and-a-half-day sessions from mid-July to mid-August. For transfer students, two one-day sessions are held in late July. A one-day session is held in September for students who cannot attend during the summer. Your parents or spouse are also encouraged to attend. Information will be mailed to you in early May.

If you are entering the university in a quarter other than fall, an orientation and registration program will be conducted before the beginning of that quarter. Information will be sent to you from University College.

Further information about Precollege Orientation is available from University College, Chubb Hall 140, telephone 740-593-1951.

Registration Information

Registration

As noted above, if you are an incoming freshman or transfer student, you will receive assistance with class preregistration along with other information during Precollege Orientation.

If you are a current or re-enrolling student at Ohio University, you should follow procedures for using the Touch-Tone Registration and Information Processing System (TRIPS) that appear in the *Schedule of Classes*, available in the registrar's office approximately two weeks before the beginning of preregistration each quarter.

Late Registration

Registration is not permitted after the first 15 calendar days of the quarter (in the case of some individual classes, after the first day). All registration procedures should be completed by the 15th calendar day of the quarter.

Unless late changes are judged by the registrar as being delayed by the university, you will be charged a retroactive registration correction fee

beginning with the third calendar week of each quarter. The fees are: third week, \$40; fourth week, \$60; fifth week, \$80; and sixth week, \$100.

Identification Card

When you register, you will be given information about obtaining an identification card, issued by Communication Network Services (CNS). This card, which is validated by your registration, gives you access to campus services including the meal plan, library privileges, and the Student Health Service.

The card is issued free of charge according to these guidelines:

- 1** If you are a new student, you are issued a card free of charge.
- 2** If you are a re-enrolling student returning after one year or more, your old card will be valid upon registration. If you no longer have your old card, you will be issued a new card free of charge.
- 3** If your name or Social Security number has changed, you will be issued a new card free of charge provided you return your old card when the new one is issued.

CNS charges a card replacement fee under these circumstances:

a You will be charged \$10 to replace a card that is lost, stolen, or damaged within one year of your last quarter of enrollment. (A \$5 refund will be issued if you find your old card and return it to CNS, located in the HDL Center, 160 W. Union Street, during the same quarter in which it was replaced.)

b If your name or Social Security number has changed, you will be charged \$10 for a new card *only* if you do not return the old card. If you return the old card when the new one is issued, you will not be charged.

Updating Personal Information

You must report any changes in your personal data to the registrar services windows, 1st floor, Chubb Hall. Requests for changes in name, social security number, or birthdate must be accompanied by a document verifying the correct information.

You must report address changes to the university at most student services offices, including your dean's office and the registrar's office. You may make a change of address by using the form available via the World Wide Web at <http://www.ohiou.edu/registrar>. Take the form to the registrar services windows in Chubb Hall or send information via e-mail to: address@ouvaxa.cats.ohiou.edu.

You are responsible for any university communication sent to you at the last address reported to the university.

Enrollment Information

All course credit earned at Ohio University is designated in quarter hours. Normally a quarter hour is the equivalent of one lecture or two laboratory periods a week throughout the quarter.

Student Standing (Freshman, Sophomore, Junior, Senior)

Your student standing—or year in college—is determined by your total number of quarter hours earned. Freshmen have completed 0 to 44 hours; sophomores, 45 to 89; juniors, 90 to 134; and seniors, 135 and over.

Course Load

As an undergraduate student, you will usually carry a course load of 16–20 quarter hours, even if you are on academic probation. For tuition purposes, a course load of 11–20 quarter hours is assessed full-time fees by the university. If you receive financial aid or veterans benefits, or if you are a student athlete, you must carry a minimum of 12 quarter hours to be considered eligible, and if you receive a scholarship you must carry 12–16 quarter hours, depending on scholarship criteria.

If you schedule fewer than 11 credit hours, you will be assessed part-time fees for the quarter. If you need more than 20 hours, you will be charged an additional fee for each hour over 20. TRIPS will not allow you to register for a course which causes the total hours to exceed the maximum. You must receive permission from your academic dean's student services office or regional campus student services office to register for more than 20 hours in a quarter. If you are granted permission to exceed the maximum hours you will receive a Permission to Exceed Maximum Credit Hours form which should be returned to registrar services window 2 or 3, 1st floor, Chubb Hall.

Veterans Benefits. If you are an undergraduate planning to receive Veterans Education Assistance, you must register for at least 12 quarter hours for full benefits to be awarded. For more information about veterans benefits, contact the Veterans Coordinator, registrar staff offices, 1st floor, Chubb Hall 108, 740-593-4186.

Student Athletes—Maintaining Eligibility.

After your first academic year in residence or after one season of eligibility in a sport, your eligibility to participate in sports is based on (1) satisfactory completion of an accumulative total of quarter hours equivalent to an average of at least 12 hours per term of enrollment, or (2) satisfactory completion of 36 quarter hours in the preceding three quarters, with no more than 9 summer session hours included. Freshmen and sophomores must have a minimum accumulative g.p.a. of 1.8, while juniors and seniors must have a minimum accumulative g.p.a. of 2.0 to be eligible to compete.

You must declare a major by the beginning of your third year in school. You must be registered for at least 12 hours during the season of competition and not drop below that level.

In addition, a specific percentage of your degree program requirements must be completed. By the beginning of your third year of enrollment, you must have completed at least 25 percent of your specific degree program credits; by the beginning of your fourth year, 50 percent; and by the beginning of your fifth year, 75 percent. This provision also applies if you transfer from a two- or four-year institution, even if you have not completed a year in residence or a season of eligibility at Ohio University.

Declaring a Major

Normally you will declare a major when you apply as a freshman or transfer student by indicating the name and the six-character major code number on the application form. If you are unsure about a major, Ohio University allows you to enroll as an undecided major in University College or many other colleges.

Some programs of study have higher admission requirements than those set by the university in general, and admission to the university does not automatically grant admission into those programs. Consult the college in which the major is offered or the Office of Admissions for further information on limited or selective admissions policies for specific programs.

Changing Your Major or College

If you are classified as undecided and wish to declare a major, or if you would like to change your major, contact the college in which the major is offered to see if you meet the entry requirements.

Sometimes a change in major will necessitate transferring to another college (e.g., from Arts and Sciences to Communication). You then make application for transfer in the academic dean's student services office of the college to which you would like to be admitted. If you are an Honors Tutorial or University

College student, go to your current college before applying to the academic dean's student services office of the college to which you would like to be admitted. The change must be processed through the dean's office of both colleges within the first 15 calendar days of the quarter (the specific date is published in each quarter's *Schedule of Classes*), or you will remain enrolled in the initial college for that quarter. You must fulfill degree requirements of the college into which you transfer. You may, however, pursue programs in more than one college simultaneously. Consult your academic dean's student services office about double degrees and dual major opportunities.

Changing Your Class Schedule After the Quarter Begins

You may add a class, drop a class, or correct your registration using the Touchtone Registration and Information Processing System (TRIPS) before the quarter begins. However, adding certain classes after classes begin requires special permission from the instructor, and dropping any class after the fifth week of classes is generally prohibited except by petition through your academic dean's student services office. (See "Drops" below.)

Adds. You may add a class only during the first 15 calendar days of the quarter. For classes requiring the instructor's permission, you will need to obtain a permission slip from the instructor or departmental representative and then return the slip to the office indicated on the slip for final processing. You may add a class for which you have not met the prerequisite only by receiving the instructor's permission to take the class. Other classes may be added through TRIPS through the 15th day of the quarter.

Drops. You may use TRIPS to drop any class through the fifth week (defined as the 35th calendar day) of the quarter. Dropping a class is generally prohibited after the end of the fifth week, but under very exceptional circumstances you may petition your dean in writing to drop a class. (Earning a low grade in the class is not considered such a circumstance.)

If you drop a class during the first 15 calendar days of the quarter, you will have no record of that class on your transcript. When you drop a class after the 15th calendar day of the quarter, your instructor will assign a grade of Withdrawal Passing (WP) or Withdrawal Failing (WF), indicating that you were passing or failing at the time the class was dropped. This grade will appear on your grade report, your quarterly DARS report, and your official transcript. It does not affect your g.p.a.

If you drop hours through the 15th day of the quarter, you are entitled to a 100 percent refund of the reduction if the change results in a reduction of registration fees. Changes made after the 15th day of the quarter will result in no refund. If you are receiving financial aid, a change in enrollment status may result in your having to repay programs from which you received aid. (See "Refund of Fees" for more information.)

Cancelling Registration or Withdrawing from the University (Dropping All Classes)

Cancellation Before Classes Have Begun. Cancellation of registration is defined as dropping all classes before the first day of classes. You may do this by using TRIPS, or you can call or visit the registrar's office or the dean's office of your college to obtain a cancellation of registration form, which you then complete and return to the registrar's office. A refund of your registration fees is made according to the schedule in the Refund of Fees section.

Withdrawal After Classes Have Begun. Withdrawal from the university is defined as dropping all classes on or after the first day of classes. This may not be done using TRIPS. Apply for withdrawal by completing a withdrawal request form obtained from the dean's office of your college. When the request has been approved by the academic dean's student services office and housing, your withdrawal is processed by the registrar's office, which grants an official withdrawal after determining that all obligations to the university have been met. A refund of your registration fees is made according to the schedule in the Refund of Fees section.

Your change in enrollment status may result in your having to repay programs from which you have received financial aid. See the Refund of Fees and Financial Aid sections for further information.

After the first 15 calendar days of the quarter pass, your schedule becomes official. Your final tuition charges are based on your enrollment as of the 15th calendar day (the 10th class day). If you withdraw after the 15th day, you must still pay the full tuition fees and will receive a WP or WF grade. Withdrawal during the first 15 days results in an 80 percent tuition refund.

Only in extreme instances in which circumstances beyond your control make you unable to have your registration in order by the 15th day will the university consider making an exception to this policy. Even then, such decisions are made by a special review panel and require formal documentation such as a doctor's statement. Your academic dean's student services office can help you present an appeal to the review panel.

Multiple Consecutive Withdrawals.

Two or more consecutive withdrawals can be cause for placement of a registration hold on your record by the registrar or your academic dean. A petition to release this hold would be considered by your academic dean.

Withdrawing for Medical Reasons.

In the event of serious physical or mental illness, you may arrange for a medical withdrawal from the university. Your withdrawal will be effective on the date you sought treatment from the Student Health Service for your illness or injury, or the last date you attended classes, depending on your particular circumstances. If you were treated by an outside physician who has recommended a medical withdrawal, that recommendation must be approved by the medical director of the Student Health Service.

To arrange for a medical withdrawal, contact the medical director of the Student Health Service (for physical health problems) or the director of Counseling and Psychological Services (for mental health problems). The director will make a written recommendation to your academic dean for a medical withdrawal.

It is possible to withdraw medically through the ninth week of a quarter or the fourth week of a summer session. After that, the appropriate director and the dean of your college must agree on the withdrawal.

If you are granted a medical withdrawal, you will receive notification in the mail from the medical director. A refund of fees, if applicable, will be based on the effective date of your withdrawal and will be made according to the schedule in the Refund of Fees section. A medical hold will be placed on your records, and to re-enroll you must request a medical clearance from the appropriate director. Once the clearance is approved, the hold will be released.

Class Attendance Policy

The weight given to class attendance in determining your grade is an academic matter; thus, all instructors are responsible for their own attendance policies. Though your instructor will state specific attendance requirements during the first week of classes each quarter, the university does expect you to attend classes regularly.

Excused Absences. Although instructors' policies govern how excused absences will be handled in their classes, certain absences are considered legitimate by the university. These include illness, death in the immediate family, religious observance, jury duty, and involvement in university-sponsored activities.

If you are returning to class after a legitimate absence, you can expect your instructors' assistance (makeup work, excused absences, change of grade computation) within the limits of their established attendance policies. There are occasions when the size or the nature of the course makes it necessary to limit the number of excused absences or the availability of makeup work, particularly for examinations or such special events as field trips or outside speakers. Such limitations should be explained in the instructor's attendance policy at the beginning of each course. *If you are involved in university activities that may conflict with your class schedule, check with your instructor as early as possible to make satisfactory arrangements.* You may document reasons for your absence as follows:

If you are participating in an authorized university activity (departmental trip, music or debate activity, ROTC function, or athletic competition), you can obtain notification from the sponsoring office. If you are hospitalized at O'Brien Memorial Hospital, you are not issued a notification of class absence. However, you may request that your instructor call the Student Health Service to verify your hospitalization. If you receive outpatient care at the Student Health Service, you will not be issued a notification of class absence. However, if you give written permission for the information to be released, you may request that your instructor call for verification that you received outpatient care. It is assumed that, whenever possible, you will visit the health service as an outpatient without missing class.

If you receive medical care from personnel or facilities other than the Student Health Service, you are required to provide verification of the dates you received care.

If your grade has been affected by a legitimate absence or absences that your instructor does not excuse, you may appeal through the normal grade appeal process (first through the instructor, then the department chair or school director, and then the dean of your college). If satisfaction is not achieved through this process, the dean will appoint a faculty committee of five members, including the chair or director of the department or school in question, to consider your case and render a decision. The decision of this committee is not subject to further appeal.

Two-Hour Rule. If you miss the first two contact hours of a class for which you have registered, the instructor has the option of not admitting you to the class. (This policy applies to the first two **hours** of a class, not to the first two class meetings.) If you miss the first two contact hours, check with your instructor to verify your status in the class. If you have not been admitted, you will need to drop the class through TRIPS. (See "Change of Course Schedule.")

Note: If the instructor does not admit you to the class, you still must drop the class from your schedule using TRIPS. Otherwise, you will receive an F, an FN (failure never attended), or an FS (failure stopped attending) for the class at the end of the quarter.

Auditing

You may register to audit classes, which allows you to preview or review courses without receiving a grade or credit hours, but the choice to audit must be made and identified at the time of registration. Changes from audit to credit or from credit to audit must be made during the first 15 calendar days of the quarter. Audited classes count in calculating tuition, but they do not carry credit or count toward financial aid eligibility. Audited courses will appear on your official transcript but will not affect your g.p.a. or hours earned. Auditing a class is not the same as taking it on a pass/fail basis.

Your instructor may set up specific requirements for auditing the class, and if you do not meet the requirements, you may be removed from the class at your instructor's discretion with a grade of WP or WF. Be sure to discuss your auditing status with your instructor at the first class meeting.

Visiting

You must be a registered student in order to attend classes at Ohio University. If you are a full-time student, you also have the privilege of visiting classes for which you haven't specifically registered if you obtain the instructor's permission ahead of time.

Taking Graduate-Level Courses

As an undergraduate student, you are not eligible to take graduate courses for credit unless you are in the Honors Tutorial College or participate in one of the following programs:

Departmental Honors. Students in a recognized departmental honors program may take a maximum of three graduate courses in their major department during their senior year (i.e., after earning 135 or more hours of credit). Hours earned in these courses will count toward total hours

required for graduation and the grades will be calculated into the undergraduate g.p.a. Registration in graduate courses requires written permission from the instructor. Participation in this option is at the discretion of the department or school. Students process this special registration through the office of the Dean of the Honors Tutorial College.

Senior for Graduate Credit. If you are an Ohio University student, or a well qualified senior attending another university and within nine hours of completing all requirements for a bachelor's degree, you may be eligible for graduate study as a senior. You must have an overall g.p.a. of at least 2.5 and obtain written permission from the graduate chair of each department offering the graduate courses and from your college dean. Permission to take such courses does not grant admission to a graduate degree program. If you are admitted as a senior for graduate credit, you will pay undergraduate fees and will not be eligible for graduate associate or graduate scholarship support. Generally, no more than two graduate courses may be taken in this way, and graduate courses will not fulfill any undergraduate requirements. The graduate credit becomes part of your graduate record only; it does not affect your undergraduate hours earned or g.p.a.

Request this option through the Office of Graduate Student Services before registering. A \$10 application fee is charged, and admission is granted for one quarter only.

Early Admission to Graduate Program. Based on superior undergraduate performance, you may qualify for early admission to a graduate degree program. You must have an overall g.p.a. of at least 3.5 and must have completed all undergraduate requirements, except the total credit-hour requirements, by the time you enter the graduate degree program. You also must obtain written permission from your department, the department's graduate committee, and the dean of your undergraduate college. Once admitted, you may enroll in graduate classes for graduate credit. These classes can be used to satisfy both graduate degree requirements and undergraduate total credit hour requirements, but

the hours and grades are part of your graduate record only. Apply through the Office of Graduate Student Services before registering. If you qualify, you pay graduate fees and are eligible for graduate associate or scholarship support.

Final Examinations

Final examinations for classes are held during a formal examination period at the end of the academic term. You are required to take the examinations according to the schedule published by the registrar's office in the quarterly *Schedule of Classes*.

Each final examination is scheduled for two hours. Final examinations are given in the regularly scheduled classroom unless the instructor is giving a combined sections examination. Instructors will notify students in courses having combined sections examinations of the time and location of the classroom where the examination will be given.

Students will not be required to sit for more than three final examinations in one day. Should a student be scheduled for more than three examinations in one day, the student may seek relief from the instructor with the examination scheduled latest in the day. This process must be initiated and completed by the ninth week of the quarter. The instructor will provide an examination for the student at a mutually agreed upon time during the examination week.

The final examination for departmental honors work must be taken before the opening of the regular examination period. Consult your departmental honors program coordinator for more information.

Grading Information

The basis for determining your scholastic standing is the grade-point average (g.p.a.). This average is determined by dividing the total number of grade points you have earned by the total number of quarter hours of credit you have attempted. For example, if you have earned a C (2.0) and a B (3.0) in each of two five-hour courses, first multiply the number of hours in each course by the point value for that grade ($5 \times 2 = 10$ and $5 \times 3 = 15$)

and add the grade points for each course together to find the total number of grade points (25). Then add the number of hours attempted ($5 + 5 = 10$) and divide the total number of grade points by the total hours attempted ($25 \div 10 = 2.5$). Your g.p.a. after completing the two courses would be 2.5.

Your g.p.a. is figured only on credit hours attempted—courses for which you receive letter grades (A–F), FN (failure never attended), or FS (failure stopped attending). FN and FS have the same value as an F. Grades that are considered hours earned but are not figured into the g.p.a. are listed in the following section.

Grade Reports

At the close of a session or upon completion of a course, the instructor reports a final grade indicating the quality of your work in the course. Once grades are submitted, they are final and cannot be changed unless evidence of an error can be presented. *Grades cannot be changed by arranging to complete additional work.* Point values are assigned for each quarter hour of credit completed according to the following grading system:

A	4.0	B+	3.33	C+	2.33	D+	1.33
A-	3.67	B	3.00	C	2.00	D	1.00
		B-	2.67	C-	1.67	D-	0.67
						F	0.00
						FN	0.00
						FS	0.00

CR—Credit. A report of credit may be made for certain preapproved courses. This is credit without grade points, which means credit is added to the hours earned but not added to the hours attempted for grade-point calculation. Credit is to be used for certain courses and only by prior approval of the Curriculum Council or, in certain special cases, by the dean of the college. Some colleges may limit the number of CRs applied to major and degree requirements.

FN—Failure Never Attended. This grade is given when you do not officially drop a course for which you registered but did not attend. It counts as an F in your g.p.a. Like any other undergraduate grade in a

nonrepeatable course, the FN may be replaced in your grade-point average by the last grade earned if you retake the course.

FS—Failure Stopped Attending.

This grade is given when you stop attending but do not officially drop a course for which you registered and attended at least once. It counts as an F in your g.p.a. Like any other undergraduate grade in a non-repeatable course, the FS may be replaced in your grade-point average by the last grade earned if you retake the course.

Removal of FN or FS from the record (treating the course, for tuition and grade purposes, as though it had been dropped by the 15th day of the quarter) requires action by the late course withdrawal review panel, as is the case with any other grade.

PR—Progress. This grade is primarily used at the graduate level and applies only to a few very specific undergraduate courses. This grade indicates that you have made progress in the course but have not finished the work required for a letter grade. It may extend longer than one quarter and is not calculated in the g.p.a.

I—Incomplete. Receiving an I means that you have not completed the work required for a regular grade. It is not counted in the g.p.a. You must have the instructor's permission to receive the Incomplete, and you must complete the work within the first six weeks of your next quarter of enrollment or the I converts automatically to an F. You may request a one-time extension to the end of the quarter from your instructor. He or she must then complete a request for the extension through the registrar's office.

When you apply for graduation, any Incompletes on your record will be calculated as F grades for the purpose of determining eligibility for graduation. If the I is not completed within six weeks after graduation, the grade converts to an F.

WP/WF—Withdrawal Pass/

Withdrawal Fail. These grades designate courses dropped after the 15th day of the quarter. They do not count in the g.p.a.

Other grade reports that may appear on your grade slip but are not assigned by a faculty member:

AU—Audit. Indicates formal participation in a course, but not for credit or a regular grade. If you register for an audit, you are expected to attend and participate in classes according to the instructor's policy. Failing to do so can result in removal of the Audit from your record. (If this action results in a change of fees, the university policy on refund of registration fees will apply.) Audited courses are not computed in the g.p.a. or hours earned.

NC—No Credit. Conversion of freshman D, I, and F grades from Summer 1969-70 through Summer 1976-77 under ABC Grading System option. Also replaces all F grades under Segmented Transcript Policy (began Fall 1985-86) and in the Ohio Program of Intensive English (OPIE).

NR—No Report. This grade is assigned when:

1. The instructor does not report the grade;
2. The instructor reports the grade too late for processing; or
3. The instructor reports an inappropriate grade (wrong grade eligibility code).

P—Pass. Conversion of grades A through D- under the pass/fail option. Credit is awarded, but the g.p.a. is not affected. The fail (F) grade counts in the g.p.a. the same as any F. Grades for these courses do not affect the g.p.a. Courses taken under the pass/fail option will not count toward graduation requirements but will count in total hours earned for graduation. There is a limit on the number of hours earned under the pass/fail option that may apply toward total hours required for graduation.

Repeating a Course

A repeatable course is defined as a course taken for additional hours of credit toward graduation requirements (i.e., MUS 340, PSY 490). Some departments place limits on the total number of credits that may be earned in repeatable courses.

Retaking a Course

A regular course with fixed content can be retaken to affect your g.p.a. Retaking the course removes the hours and the effect of the earlier grade from the calculation of the g.p.a. However, all grades are printed on your permanent academic record (transcript). The later grade is the one calculated in the g.p.a., even if it is lower than the first, and duplicated credit hours are not accepted toward the credit-hour requirement for graduation. Some graduate and professional schools will include all grades in their calculation of your g.p.a. when determining your eligibility for admission, even though Ohio University calculates only the last grade in a retaken course.

As a rule, a course designated as a prerequisite may not be retaken to affect the g.p.a. after you have completed higher-level coursework in the same subject area. Courses taken at Ohio University and retaken at another university are not eligible for grade point adjustment under this policy. Some departments limit the number of times a course may be retaken, so check with your academic dean's student services office regarding restrictions.

Retaking a course after graduation will not change your graduation g.p.a., honors status, or rank in class.

Pass/Fail Grading Option

Taking a course pass/fail is an option designed to encourage you to explore areas of study in a way that will not negatively affect your g.p.a. To be eligible, you must have a g.p.a. of 2.5 or better for your latest quarter of full-time enrollment, or have an accumulative g.p.a. of 2.0 or better. If you are a first-quarter freshman, you automatically qualify.

The pass/fail option is subject to the following restrictions: (1) No course taken pass/fail may be used to fulfill any graduation requirement (college, school, or department) other than the total hours requirement. For example, courses taken pass/fail cannot be used to satisfy distribution requirements, minor or certificate requirements, requirements of courses above a specified level, a specific course established as a major

requirement, or any other such requirements. (2) You may take no more than one course per quarter by pass/fail. (3) You may complete no more than 20 quarter hours under this option. (4) The instructor is not to know who elects his or her courses on the pass/fail option. A letter grade will be turned in and then converted to a P or F on the transcript. The original letter grade cannot be retrieved.

To initiate the pass/fail option you should register for the class via TRIPS, then contact your academic dean's student services office or regional campus student services offices (during the first 15 calendar days of the quarter ONLY) to request that a course be taken pass/fail. Pass/fail requests by regional campus students are reviewed by the student's academic dean's student services office on the Athens campus and may be denied if an inappropriate choice has been made. You cannot process pass/fail applications through TRIPS.

Segmented Transcript Policy

The segmented transcript policy was developed as a way to allow students who leave the university with low grades and re-enroll after an absence of six or more years to begin coursework without the threat of academic probation. Under this policy, all of your courses will be reflected on your transcript, but the grades you have earned earlier will be temporarily changed to CR and NC, which removes them from the calculation of your accumulative g.p.a., while the hours earned will be carried forward.

The new g.p.a. after segmentation will be used for determining your probationary status and liability of being dropped (see the Academic Probation section). The new g.p.a. also *may* be used, at the discretion of relevant officials or committees, to determine your eligibility for entrance to academic programs or for scholarships and honor societies, although they also have the option of using both the current and previous g.p.a.

However, the g.p.a. for determining the 2.0 minimum overall g.p.a. for graduation and in the major, as well as honors status at graduation, will be based on *all* hours attempted at Ohio University, including those

attempted before segmentation. Upon your graduation, all grades are returned to the originals and recalculated into the g.p.a.

Subsequent gaps of six or more years will not result in further segmentation of your transcript.

You must petition your college dean to have your transcript segmented; further information about and application forms for the segmented transcript policy are available from your academic dean's student services office.

Academic Status

Deans List

The Deans List, compiled at the close of each quarter, includes the names of all students whose g.p.a. for the quarter is at least 3.3 on a minimum of 16 quarter hours of credit earned, including at least 12 hours attempted for letter grades that are used to calculate your g.p.a.

Academic Probation

To avoid academic probation, you must maintain an accumulative g.p.a. of at least 2.0. At the close of each quarter in which you are a full-time student, your record will be reviewed to verify your g.p.a. If you are a part-time student, the review will take place at the close of the quarter in which your accumulative number of hours of enrollment since your initial enrollment, or since your last review, exceeds 10.

Probation and Continuation. If at the time of the review you do not have the required 2.0 minimum g.p.a., you will be placed on academic probation. If you are already on probation, you may be allowed to continue at the university until the next review if, in the opinion of the dean, you are making adequate progress toward attaining a 2.0 g.p.a. A continuance can be granted a maximum of three times; thus, there is a limit of four consecutive quarters on academic probation if you are a full-time student.

Normally, adequate progress is based on reducing, or at least not increasing, the number of deficiency points you have, which is determined by multiplying your total number of hours attempted by two and subtracting this from all points earned.

For example, if you have attempted 40 hours and have earned 65 grade points for those hours, first multiply hours by 2 ($40 \times 2 = 80$). Then subtract the number of grade points ($80 - 65 = 15$ deficiency points). Increasing your grade points for additional hours can decrease your deficiency points and show that you are making adequate progress. This can be done by earning grades of C+ and above in the hours you attempt.

Some colleges require higher standards of performance than the university's 2.0 minimum. If you have been dropped from a college because of failure to meet such additional standards but are not subject to dismissal according to the university rules below, you are still eligible for admission to other programs in the university.

Removal from Probation. Removal of probationary status is automatic at the close of the quarter of review for both part-time and full-time students when your accumulative g.p.a. rises to 2.0 or above. Part-time students may be on probation *between* quarters of review even though their g.p.a. is 2.0 or higher.

Dismissal (Drop) and Reinstatement. If you are denied continuation of probation, you will be dropped from the university. A status of "Drop I" means you were dropped because of an increase in deficiency points. "Drop L" means you reached the limit of four probationary quarters. If you have been dropped, you are not able to enroll for regular courses on any Ohio University campus.

You may petition the dean of your college for reinstatement, but normally a petition will not be considered for at least 12 months after your dismissal. As a condition for reinstatement, the dean of your college may suggest remedial steps you can take, usually in the form of courses to be taken at other institutions or through Independent Study by Correspondence or Course Credit by Examination. However, such steps will not constitute sufficient grounds for waiving or shortening the waiting period for reinstatement.

If you have been dropped from the university for a second time, reinstatement is possible only under extraordinary circumstances and cannot be considered for at least 24 months after the second dismissal.

Academic Misconduct

All forms of academic misconduct are prohibited by the Student Code of Conduct. Academic misconduct refers to dishonesty in assignments or examinations (cheating); presenting the ideas or the writing of someone else as your own (plagiarism); or knowingly furnishing false information to the university by forgery, alteration, or misuse of university documents, records, or identification. Academic misconduct includes, but is not limited to, permitting another student to plagiarize or cheat from your work; submitting an academic exercise (written work, printing, sculpture, computer program) that has been prepared totally or in part by another; acquiring improper knowledge of the contents of an exam; using unauthorized material during an exam; submitting the same paper in two different courses without the consent of your professors; or submitting a forged grade change slip.

If you have committed any act of academic misconduct as determined by the judgment of a faculty member or by the procedures of the Office of University Judiciaries, serious action—which may include failure of work undertaken, failure in the course, and formal disciplinary action, including suspension or expulsion—will be taken against you.

In cases of academic misconduct, a faculty member has the authority to administer a failing grade. If your course grade is lowered by an instructor who has accused you of plagiarism, you may appeal this grade first through the instructor, then the department chair or school director, and then the dean of your college. If satisfaction is not achieved through this process, the dean will appoint a faculty committee of five members, including the chair or director of the department or school in question, to consider your case and render a decision. The decision of this committee is not subject to further appeal. The faculty member also has the discretion to refer your case to the director of judiciaries. The

director of judiciaries, the University Hearing Board, and the University Appeal Board have the authority to take formal action that includes, but is not limited to, suspension or expulsion from the university. However, the director of judiciaries, the University Hearing Board, and the University Appeal Board have no authority to modify a grade given by a faculty member.

If you wish to appeal an action of University Judiciaries or the University Hearing Board, such as suspension or expulsion, you can take the matter to the University Appeal Board. Details of appeal procedures are included in the *Student Handbook*.

Further information on academic misconduct is available from the Office of University Judiciaries, telephone 740-593-2626.

Student Records Information

Student Records Policy

Consistent with the Family Educational Rights and Privacy Act of 1974, all of Ohio University's policies and practices governing the collection, maintenance, review, and release of student records will be based upon the principles of confidentiality and your individual right to privacy. The specific policy is detailed in the Appendix of this catalog.

Obtaining Transcripts

To order an official transcript of your academic record, submit a signed release form (available from the registrar's office in Chubb Hall) or a letter of request, along with a \$5 processing fee for each transcript, to the registrar's office. You can pick up transcripts the next business day or arrange to have them sent to a designated address.

Replacement of Diploma

To obtain a replacement diploma, file a notarized affidavit attesting that the original diploma has been lost or destroyed, or verification of a name change, to the registrar's office along with a request for a new diploma. In the case of a name change, you also must return the original diploma. Instructions for verifying a name change are available from the registrar's office. The fee for diploma replacement is \$15.

The replacement diploma will carry current titles and signatures of university officers and the notation "official replacement." Allow four to six weeks for delivery.

Changes in either major or nonmajor requirements that are made necessary by altered or discontinued courses or by requirements imposed by external accrediting or certification agencies will be resolved on an individual basis by the dean of your college. Whenever possible, new requirements will be implemented with a beginning class or upon the expiration of the appropriate time limit.

Transfer students are governed by the same regulations, except that the number of years in which to complete the degree requirements is reduced by the number of years of work you transfer.

Graduation Requirements—University Wide

Catalog of Entry

When you first register at Ohio University, the requirements you must fulfill are determined by the catalog of entry—that is, the catalog published the year in which you register—and are effective for a period of five years after the date of your first registration. If you do not meet all degree requirements within five years, the requirements of the current catalog apply.

Changes in either major or nonmajor requirements that are made necessary by altered or discontinued courses or by requirements imposed by external accrediting or certification agencies will be resolved on an individual basis by the dean of your college. Whenever possible, new requirements will be implemented with a beginning class or upon the expiration of the appropriate time limit.

Transfer students are governed by the same regulations except that the number of years in which to complete the degree requirements is reduced by the number of years of work you transfer.

Requirements

Ohio University has two sets of graduation requirements: university-wide requirements, which all students must complete, and college-level requirements, which include the requirements for completing your major or minor. University-wide requirements are discussed in this section. Specific college-level and department-level requirements for majors and minors are explained under the appropriate college listing in the Colleges and Curricula section. (Some colleges or majors may require transfer students to take additional courses to meet specific major requirements.)

In general, you must have a minimum of 192 quarter hours of credit for a bachelor's degree, with all college requirements met. (Students who took coursework at Ohio University before fall 1977 can graduate with 180 hours provided they have met all other requirements.) An associate's degree requires a minimum of 96 quarter hours.

No more than eight credit hours earned in developmental courses may be applied toward the total hours required for graduation. Developmental courses include CHEM 115, ENG 150, ENG 150A, MATH 101, MATH 102, and UC 110, 110A, 110B, 112, 112A, 112B, 114.

The university recommends a minimum of 24 hours completed in the minor, and has no policy on the minimum requirements for a major. The specific requirements will be determined by your major (and minor, if you have one) department. You also must have a minimum g.p.a. of 2.0 (C) on all hours attempted (including work taken at another institution, if you are a transfer student) and in the major or equivalent as determined by your college. Your college may have additional g.p.a. requirements.

All baccalaureate students (except Honors Tutorial College students) also must complete Ohio University's General Education Requirements. Associate's degree students must complete the freshman English and quantitative skills requirements.

Degree Audit Reporting System (DARS)

A DARS report is issued by your academic dean's student services office/academic advisor each quarter prior to preregistration. This report includes your Registration Access Code (RAC) and your TRIPS registration call-in time. This report helps in determining requirements for graduation by showing progress toward completing those requirements. Reports are also available upon request at your academic dean's student services office or regional campus student services office during other times. If you have questions concerning the DARS report, please contact your college academic dean's student services office or your regional campus student services office.

General Education Requirements

Ohio University believes that, as an educated person, you need certain intellectual skills in order to participate effectively in society. These include the following:

The ability to communicate through the written word and the ability to use quantitative or symbolic reasoning.

Broad knowledge of the major fields of learning.

A capacity for evaluation and synthesis.

To help you meet these objectives, Ohio University has instituted a three-tiered General Education Requirement that all baccalaureate degree students (except those in Honors Tutorial College) must fulfill. Tier I course requirements build your quantitative and English composition skills; Tier II course requirements increase your breadth of knowledge; and the Tier III course requirement develops your ability to interrelate, synthesize, and integrate knowledge from different academic disciplines.

Tier I Requirements

Quantitative Skills. You must demonstrate or acquire an acceptable level of quantitative skills to satisfy graduation requirements. A math placement test determines your skill level for placement or exemption unless the Tier I quantitative skills requirement has been satisfied by transfer or advanced placement credit. (Students in some majors are required to take a math placement test regardless of transfer or advanced placement credit.) The choice of the course (if any) in which you enroll depends on your major and should be discussed with your advisor.

Any Ohio University MATH course numbered 109 or above satisfies the Tier I quantitative skills requirement (1M). To enroll in any MATH or other quantitative skills course, however, you must either place at the specific level required for that course or satisfy the appropriate prerequisites.

Placement levels are:

DV1 and DV2 (Developmental): Indicate inadequate preparation to enroll in a Tier I-level course. You must complete MATH 101 (and/or 102 on regional campuses) before enrolling in a Level 1 course.

PL1 (Placement Level 1): Indicates preparation for any of the following Tier I-fulfilling courses: MATH 109; MATH 113; MATH 117, 118 (available only on regional campuses and through correspondence); MATH 120 (early childhood, middle childhood, and intervention specialist education majors only); PHIL 120; PSY 120.

PL2 (Placement Level 2): Indicates preparation for Level 1 courses as well as these additional Tier I-fulfilling courses: CS 220, MATH 115 (recommended only for students who plan to enroll in MATH 263A), MATH 150, 163A, 250.

PL3 (Placement Level 3): Demonstrates competence sufficient to fulfill the Tier I quantitative skills requirement. If your major requires that you enroll in a quantitative skills course, placement at Level 3 indicates preparation for MATH 263A and any course in Levels 1 or 2.

English Composition. A freshman composition course and an advanced junior-level composition course are required. Any English 151, 151A, 152, 153, 153A, or 153B will satisfy the university's General Education first-year writing requirement (1E). These courses are alternative, not sequential, courses in writing. You should select your course by looking at the descriptions and choosing the one that appeals to you. In general, better writers and all English majors will take 152, 153, 153A, or 153B if available. (All regional campus students are given a placement test.)

In your junior year, you must take an approved advanced writing course unless you demonstrate advanced writing proficiency by passing the junior-level exemption exam. The following courses fulfill the junior-level composition requirement:

ANTH 356J	HLTH 370J
ART 300J	IT 370J
CA 360J	JOUR 441J
EDCI 331J	ML 321J or 370J
ENG 305J, 306J,	PHIL 360J
307J, or 308J	POLS 305J
FILM 344J	PRCM 325J
GEOG 375J	REC 370J
HCGE 345J	SOC 356J
HIST 301J or 396J	

These courses are marked in the Courses of Instruction section of this catalog with the designation (1J) following the title and credit hours.

If you are a transfer student, your requirements are determined by when you enroll and the number and type of credit hours transferred.

Tier II Requirements

Students are required to complete a total of 30 credit hours from an approved list of courses in the following five distribution areas:

Applied Science and Technology (A)
Cross-Cultural Perspectives (C)
Humanities and Fine Arts (H)
Natural Sciences and Mathematics (N)
Social Sciences (S)

You are required to take at least four credit hours in four of the five areas and may satisfy no more than two of the required four areas with courses from the same department. You may satisfy no more than 12 of the 30 hours with courses from the same department.

You may apply one approved Tier II course in your major department toward partial fulfillment of the Tier II requirement.

Approved courses are marked in the Courses of Instruction section with (2A), (2C), (2H), (2N), or (2S) following the title and credit hours. The following courses fulfill the Tier II breadth of knowledge requirement:

Applied Science and Technology (2A)

Biological Sciences 220

Chemical Engineering 331

Chemistry and Biochemistry 101

Communication Systems
Management 101

Computer Science 230

Engineering and Technology 280,
320, 350, 470

Environmental and Plant Biology
103, 160

Geography 201, 260

Geological Sciences 215, 231

Health Sciences 202

Hearing and Speech Sciences 108

Human and Consumer Sciences—Food
and Nutrition 128

Industrial Technology 110

Mechanical Engineering 100

Microbiology 211, 212

Cross-Cultural Perspectives (2C)

Anthropology 101

Art History 214, 330, 331

Dance 351, 352, 353

English 331, 332, 333

Foreign Languages and Literatures

Arabic 211, 212, 213

Chinese 211, 212, 213

French 211, 212, 213

German 211, 212, 213

Indonesian/Malaysian 211, 212, 213

Italian 211, 212, 213

Japanese 211, 212, 213, 250

Russian 211, 212, 213

Spanish 211, 212, 213, 349

Swahili 211, 212, 213

Geography 131

History 131, 246, 323ABC, 335AB,
341ABC, 345ABC, 346A8

International Studies 103, 113, 118, 121

Philosophy 370, 371, 372

Political Science 340

Humanities and Fine Arts (2H)

African American Studies 110, 150, 210, 211, 250, 350

Art 110

Art History 211, 212, 213

Comparative Arts 117, 118, 211, 212, 213, 270, 271, 272

Dance 170, 171, 471, 472, 473

English 200, 204, 205, 206

Film 201, 202, 203

Foreign Languages and Literatures
Classics in English 127, 234, 235, 236, 237, 252, 254, 255

Greek 211, 212, 213

International Literature: Modern Languages 335, 336, 337, 338AB

Latin 211, 212, 213

History 121, 122, 123

Humanities 107, 108, 109, 117

Interpersonal Communication 101

Music 100, 120, 125

Philosophy 101, 130, 160, 216, 232, 240, 260, 310, 311, 312, 314, 361, 362

Theater 170, 171, 270, 271, 272

Women's Studies 100

Natural Sciences and Mathematics (2N)

Anthropology 201

Biological Sciences 100, 103, 171, 172, 173, 202, 225; and 130, 131
(Chillicothe, Lancaster, and Zanesville campuses only)

Biology 101

Chemistry and Biochemistry 121, 122, 123, 151, 152, 153

Environmental and Plant Biology 100, 100L, 102, 110, 111

Geography 101

Geological Sciences 101, 120, 130, 211, 221

Mathematics 163AB, 263ABC

Microbiology 201 (Chillicothe and Zanesville campuses only), 375

Physical Science 100, 100D, 101, 101L, 105, 105L, 140, 200; and 121/121L, 122/122L, 123/123L (regional campuses only)

Physics 201, 202, 203, 251, 252, 253

Social Sciences (2S)

African American Studies 101, 202

Anthropology 202

Classical Archaeology 211, 212, 213

Economics 103, 104, 240

Geography 121, 132

History 101, 102, 103, 211, 212, 213, 315AB

Human and Consumer Sciences—Child and Family Studies 160

Human and Consumer Sciences—Retail Merchandising 250

Interpersonal Communication 351, 352, 353

Journalism 105

Linguistics 270

Management 200

Political Science 101, 102, 103, 150, 210, 230, 250, 270, 331

Psychology 101

Social Work 101

Sociology 101, 201, 223

Telecommunications 105

Tier III Requirement

Students are required to take one Tier III interdisciplinary course after attaining senior rank (135 hours). A complete list of Tier III courses is available under the heading Tier III in the Courses of Instruction section.

Residence Requirements for Graduation

Like most universities, Ohio University requires that you be "in residence" for a certain number of credit hours in order to graduate. Some colleges have additional residence requirements, so check with your advisor or dean's office to make certain that all requirements are being met.

Residence credit is defined as any credit earned by regular enrollment at Ohio University on the Athens campus or any regional campus or by Ohio University programs abroad, any approved student teaching, Independent Study and Course Credit by Examination arranged through the Independent Study Program, degree credit earned through the Office of Continuing Education, or any combination of these options.

Bachelor's Degree

If you have completed fewer than 96 quarter hours at Ohio University, the minimum requirement is to be in residence your final three quarters, with 48 hours of resident credit as defined above. If you have completed 96 or more quarter hours at Ohio University, the *final quarter (16 hours)* shall be in residence with resident credit as defined above.

If you begin graduate study at Ohio University before completing all requirements for a bachelor's degree, your residence requirement will be reduced by as many hours as credit hours of graduate work completed. The number of hours subtracted will be credited toward the residence requirement for a master's degree if the credit is acceptable in the program approved for graduate work toward a degree. Residence credits used for meeting requirements for one or more bachelor's degrees may not also be used for meeting the residence requirements for the graduate degree.

The residence requirements apply even if you have been approved for graduation *in absentia* and are completing your last year in an accredited institution, except that the regulations apply to residence before you leave the university. (See the *In Absentia* section.)

Associate's Degree

If you are completing an associate's degree, you must earn at least 30 quarter hours of residence credit at Ohio University. Moreover, if you complete fewer than 60 quarter hours of Ohio University credit, you must earn at least eight of your final 15 hours as residence credit as defined at the beginning of this section.

In Absentia

To be considered for *in absentia* status, you must obtain written permission from the dean of your college. If you have been approved for the senior-*in absentia* privilege, you must complete a full year's work in an Ohio University-approved professional school and be eligible for advancement without condition to the second year to obtain your bachelor's degree *in absentia*. *In absentia* programs involve preplanned curricula and cannot be arranged on an ad hoc basis. The *in absentia* privilege does not apply to graduate degree programs.

The official transcript from the school you attend must be submitted to the Office of Admissions, Chubb Hall 120, Ohio University, before the degree conferral date.

Second Bachelor's Degree

If you plan to earn two bachelor's degrees, you may meet the requirements either simultaneously or successively:

- 1 To complete requirements for two degrees conferred on the same date, you must meet the requirements for both degrees and must have completed a total of 13 quarters of college work or its equivalent (208 hours), with a minimum of five quarters of residence, or the equivalent, at Ohio University. When the two degrees are offered by different colleges, you must declare a major program in both colleges and meet the residence requirement the quarter in which the degrees are to be conferred.
- 2 If you have met the requirements for two degrees as stated above and want to have the degrees conferred in successive quarters, you may do so without further credit or residence. For example, one degree may be conferred at the end of one quarter and application made for the second degree in a subsequent quarter.
- 3 If you want to take a second bachelor's degree after receiving the first, you must complete the requirements for the second degree and meet the residence requirement in the college offering the second degree. (See individual college requirements in the Colleges and Curricula section.

Graduation Procedures

Application

Candidates for graduation must make application in the registrar's office and pay the application fee no later than the deadline listed in the academic calendar for the quarter in which graduation is planned. This application initiates the process that informs your college to check for fulfillment of degree requirements. The process culminates with the entry of the college, major, other concentrations (such as minor, dual certification in education, etc.), degree, and date of granting the degree on your permanent academic record. At the end of this process, your *graduation* g.p.a., class rank, and eligibility for honors are determined. They then cannot be changed by completing additional coursework or retaking classes.

The application fee for a bachelor's or associate's degree is \$45. If you fail to meet the requirements for graduation, you may reapply for the quarter in which you plan to complete the requirements. The fee for reapplication is \$5.

Graduation with Honor

For students entering fall 1995-96 or later, the g.p.a. requirements for graduation with honor are: *cum laude* (with honor), 3.5 to 3.749; *magna cum laude* (with high honor), 3.75 to 3.899; and *summa cum laude* (with highest honor), 3.9 to 4.0. The Latin honors notation will appear on your diploma and in the commencement program.

To be eligible for graduation with honor, you must complete a minimum of 48 hours of coursework with letter grades that affect your g.p.a. in residence at Ohio University. Successful completion of a special honors program of study is noted in the Commencement program and on your diploma. Graduation with honor does not apply to associate's or graduate degrees.

Commencement Ceremony

If you are a candidate for spring quarter graduation, or if you have earned your degree during the preceding summer, fall, or winter quarters, you are eligible to attend Commencement, held at the end of spring quarter.

Details concerning Commencement will be sent to you after you have returned your graduation application to the registrar's office and officially applied for graduation, provided you complete and return the commencement information sheet given to you at the time you submit your graduation application.

Direct any questions concerning Commencement to the Office of Public Occasions, 740-593-1761.

Services for Students

Academic Advancement Center

The Academic Advancement Center helps you develop the skills and attitudes necessary for your academic success. The center, a division of University College serving undergraduates from across campus, provides a variety of support services.

Courses. You may enroll in credit courses in study skills and reading. UC 110 Learning Strategies is a three-credit course designed to teach effective learning strategies you can use, like remembering textbook material, note taking, managing time, and preparing for exams. UC 112 College Reading Skills is a two-credit course designed to improve your reading comprehension of college-level material. You will learn an effective approach to reading textbooks, adjusting your reading rate, and mastering new vocabulary. (See Courses of Instruction section for descriptions of additional UC Courses.)

Tutoring. Individual tutoring is available for skill development and for mastery of course content. Our staff will work with you on writing, math, and study skills, free of charge, or you may benefit from using computer programs on these topics in the AAC Computer Lab. You also may request a referral to a content tutor, whom you will be expected to pay directly. In most areas, tutors are readily available; in all cases, we will do our best to connect you with a qualified tutor. Requests for tutors may be made at the center or through the AAC Web site (see following page).

Supplemental Instruction (SI). SI sessions are provided in traditionally difficult courses with large class sizes. Students who have succeeded in the courses are hired to attend the classes and then offer three to four study sessions a week for interested and enrolled students. These SI leaders help you review the course material, prepare for exams, and discover study techniques. SI sessions are usually offered in chemistry, biological sciences, economics, math, physics, and psychology courses. Courses with SI sessions are noted in each quarter's *Schedule of Classes*.

Learning Center Computer Lab. You will enjoy using this state-of-the-art computer facility to learn new and necessary software, activate and use your e-mail account, access the World Wide Web, complete writing projects, prepare presentation materials, and improve your keyboarding skills. The lab also may assist you in developing reading and math skills and in career planning. Lab assistants are always available to answer questions and to teach new processes.

College Adjustment Program (CAP). CAP is a special program for students who qualify. Sponsored by the Academic Advancement Center and a TRIO grant from the U.S. Department of Education, CAP helps new students adjust to college and meet their educational goals. Read more about CAP in the University College section.

You may contact the Academic Advancement Center to learn more about its programs and services. Please call 740-593-2644, fax 740-593-0338, visit our Web site

<http://www.ohio.edu/aac>, or e-mail to aac@ohio.edu, or come to the center on the first floor of the Alden Library.

Campus Safety

The Department of Campus Safety is responsible for ensuring the safety and well-being of the university community, as well as the security of all university property. The department oversees the Campus Escort Service and emergency call phones, and reviews lighting conditions to help ensure a crime-free campus. The department also oversees vehicle parking registration on campus. (See "Parking" in this section of the catalog.)

The Campus Escort Service is a free service that offers you a safe walk every night from 8 p.m. to 1 a.m. Sunday through Thursday and 8 p.m. to 3 a.m. Friday and Saturday. During winter quarter, service begins at 7 p.m. Escorts are trained student employees who communicate by radio with the department. Teams consist of a female and male or two females. Call 593-4040 and a team will arrive within minutes. Escorts can also be arranged in advance.

CATCAB (Campus Area Transportation Cutting Across Boundaries) is a free service designed to transport individuals with mobility limitations or health problems. By asking individuals to preschedule, CATCAB is able to provide transportation to classes or university functions that they might otherwise not be able to attend. CATCAB is available from 7:30 a.m. to 8 p.m. (After hours, the Campus Escort Service is responsible for transportation.) CATCAB schedules are available in many locations on campus. For more information, call 593-4040.

Emergency "Blue Light" phones are installed outside the main entrance of each residence hall and at the Aquatic Center, Baker Center, Bird Arena, Bryan Hall, the Facilities Management Building, Hudson Health Center, Lasher Hall, Mill Street Apartments, Parks Hall, Peden Stadium, the Ping Center, the President Street Academic Center, the Ridges, Ryors Hall at Oxbow Drive, Seigfred Hall, South Green athletic fields, Templeton-Blackburn Alumni Memorial Auditorium, Wolfe Street

Apartments, and parking lots 104, 109, and 127. Four additional emergency phones are located along the bike path, and three are on the South Green catwalks. By pushing the red button, you can call for emergency help, the Campus Escort Service, information on campus directions or parking, and referral to other campus services.

Safe and secure lighting has been installed throughout the campus. Most recently, high intensity lights have been installed along the golf course section of the bicycle and jogging path that parallels the Hocking River.

In compliance with the Crime Awareness and Campus Security Act of 1990, the Department of Campus Safety releases a yearly report on campus safety and crime rates. For a copy of this report, contact the Department of Campus Safety, Scott Quad 135, telephone 740-593-1911.

Career Services

The Office of Career Services offers you assistance in making career decisions, gaining experience to explore career options, and conducting effective job searches. Services include:

- 1 individual career advising, including identification of interests, abilities, and values
- 2 computerized career guidance programs
- 3 seminars on career decision making, resume preparation, interview techniques, and other career-related topics
- 4 the Mock Interview Program, which allows you to practice and improve your interview performance
- 5 career fairs that bring a variety of employers to campus to discuss career and job opportunities
- 6 a Career Resource Library containing a wealth of career information: career guides, employer directories, graduate school guides and admissions test bulletins, internship and summer job listings, employer literature, and professional job vacancies.

Services for Graduating Students.

In addition to the above services, which are free to all students, the office also offers the Computerized Job Search Assistance Program for students who will graduate in the current academic year. This program consists of three special services: computerized résumé referrals, the Bobcat Jobline, and on-campus interviewing. To be eligible for this program, you must register with the office by attending a registration seminar explaining services and procedures, paying a nominal fee, and submitting required materials.

The Career Services site on the World Wide Web not only provides you with general career information but can connect you with a range of other job-hunting resources on the Internet. It is linked to the Ohio University home page or can be reached at <http://www.ohiou.edu/careers/index.htm>.

You are encouraged to work with Career Services throughout your university experience for assistance in all career-related matters. For more information, call 740-593-2909.

Community Service Programs

Community Service Programs give you the chance to make a difference in the world around you—and, in the process, to make a difference in yourself. The Center for Community Service, located in Baker Center 033, can help you find the right community service opportunity. Programs include volunteer referral, national service, Community Service Federal Work-Study, service-learning, and student corps. Some offer career-related experience and academic credit.

Computer Services

Computer Services provides state-of-the-art computing resources and facilities to students at no charge. Professors or instructors arrange for your access to course-specific computer resources.

Computer Services operates a number of satellite labs where you may use computer terminals or microcom-

puters for your academic work. Most of the microcomputers can be used to access the Internet and Ohio University's network of computers.

Lab locations include Alden Library, the Computer Services Center, Copeland Hall, Grover Center, and the Music Building. Many departments also operate computing labs for their own students. The departmental and Computer Services-managed locations have a wide variety of microcomputer software available, including Microsoft Word, Excel, and Works; WordPerfect for Macintosh; and many others. A total of 50 labs are available—some to all students, some with restrictions.

Four dormitories have labs. Both Jefferson Hall and Brough House have a lab with Macintosh and PC systems, Boyd Hall contains e-mail and PC systems, and Hoover House contains microcomputers that can also be used to access the mainframe computers. Brown Lab also has PC systems.

The main offices for Computer Services are in the Computer Services Center. The Alden Instructional Support Lab is located on the second floor of the Alden Library. Hours for the computer labs are posted in the labs on a quarterly basis.

Computer Services operates the OAK student e-mail system, which provides e-mail and Internet access to all university students. It can be used from any network-connected PC or Macintosh or by modem.

Most of the labs contain laser printers for high-quality output.

Communication Network

Services. Ohio University Communication Network Services (CNS) provides telephone, data, and video communications, along with electronic security and ID card services, to the university community. In addition, CNS provides maintenance and technical support for microcomputer hardware and audio-visual equipment. The communication system relies on fiber optics and the latest in digital switching equipment. Telephone and data communications are being updated to link the Athens and regional campuses electronically.

Counseling and Psychological Services

Counseling and psychological services are available on an individual and group basis for personal, educational, and career concerns. Confidential consultations are provided by a staff of counselors, psychologists, and trainees.

If you have personal problems of any kind (emotional, social, marital, substance abuse, stress, etc.), you can receive help in understanding and resolving those difficulties.

If you are having academic difficulties, you can receive help in understanding and resolving your concerns so that you may improve your performance.

If you are uncertain about your educational or career objectives, you can obtain assistance in appraising your abilities, interests, performance, etc., so that you may identify more appropriate and satisfying directions.

Workshops on a variety of topics, designed to reinforce your educational, social, and personal growth, are frequently offered and widely publicized.

You can make an appointment to discuss your educational, career, or personal adjustment concerns by stopping by our offices on the third floor of Hudson Health Center (use the side entrance next to Voigt Hall and see the receptionist), or by calling 593-1616 between 8 a.m. and noon, and between 1 p.m. and 5 p.m. Monday through Friday.

Disability Services

The Office for Institutional Equity is committed to assuring equality of opportunity and full participation at Ohio University for persons with disabilities. The Americans with Disabilities Act (ADA) defines disability as a physical or mental impairment that substantially limits one or more major life activities such as walking, seeing, hearing, performing manual tasks, or learning; a record of such impairment; or being regarded as having such an impairment. In addition to people who have visible disabilities, the definition includes people with a range of invisible disabilities. These include psychological problems,

learning disabilities, and some chronic health problems. Persons requiring reasonable accommodations for disabilities must provide documentation and register with the Office for Institutional Equity. The office provides guidelines for required documentation of a disability. All information concerning disabilities is confidential.

The Office for Institutional Equity has the primary responsibility for identifying and coordinating services to meet the particular needs of the person with a disability. General services include priority scheduling, introduction to faculty regarding academic accommodations, transportation assistance, tutoring and study skills assistance through the Academic Advancement Center, learning and study services including liaison with Recording for the Blind and Dyslexic, library assistance, and workplace and housing accommodations.

All students, regardless of disability, are subject to established academic requirements. Ohio University recognizes the need for reasonable accommodations to promote program accessibility. If you have a disability, contact the Office for Institutional Equity located in Crewson House to discuss your individual needs.

Environmental Health and Safety

Located in Hudson Health Center, Environmental Health and Safety provides environmental and occupational health, safety, and sanitation services to the campus community. Programs are administered to ensure the health and safety of faculty, staff, students, and visitors. The department works to ensure compliance with fire authority, health department, OSHA, EPA, NRC, DOT, and other regulatory agency requirements. A multidisciplinary professional staff coordinates programs in environmental sanitation, food sanitation, pest control, radiation safety, occupational safety, industrial hygiene, fire safety, bio-safety, hazardous materials management, and workers compensation. Training programs are also conducted.

Health Service

The Student Health Service is located in Hudson Health Center on the North Green. As an enrolled student, you have access to medical care in the ambulatory care clinic on a walk-in basis Monday through Friday. Eligibility for services does not depend on purchasing student health insurance.

Serving you in the outpatient clinic are a pharmacy, a medical laboratory, X-ray facilities, and a physical therapy department. The staff includes physicians, registered nurses, physical therapists, pharmacists, and registered laboratory and X-ray technicians.

International students must have a tuberculosis skin test upon first arriving in Athens or returning to the campus after an absence of two or more years. This test is given free of charge; check the *Schedule of Classes* for time and place.

Housing

Housing administers all room and board charges and oversees the apartment complexes for graduate students, married students, and students with families.

Housing Regulation. If you have fewer than 90 earned credit hours, or have lived on campus fewer than two academic years (six quarters) you must reside in university-owned housing and participate in the food service plan. Before the beginning of each fall quarter, your hours and time in residence on campus will be counted. If you do not have 90 credit hours or two academic years in residence before the beginning of fall quarter, **you will be required to live in university-owned housing and have a food service plan for the following academic year.** The contract for housing and food service is binding for the entire academic year. If you don't comply with this regulation, you may be denied registration or your registration may be canceled.

Transfer students should contact the Office of Admissions to determine their earned-hour status. Relocating and re-enrolling students should contact the registrar's office.

Housing Regulation Exemptions.

If you meet any of the following conditions, you may request (in writing) that you be exempt from the housing regulation. Falsification of any material submitted in support of an exemption request is a violation of the Student Code of Conduct and may result in a referral to University Judiciaries.

- 1 You are enrolled as a part-time student as defined in this catalog.
- 2 You are a married student living with your spouse or a single parent living with your children within commuting distance of the university.
- 3 You live with parents or guardians whose permanent residence is within commuting distance of the university.
- 4 You have 45 or more earned credit hours or one academic year (three quarters) in residence and are living in a recognized fraternity or sorority house. (This exemption is not available to continuing students once the academic year begins.)
- 5 You are a veteran who has 18 or more months of active military service.

Special Students. All special students (students taking classes during the summer, Ohio Program of Intensive English students, etc.) must comply with the housing regulation. If you are not sure of your status, contact Housing.

Note: Continuing students with 90 or more hours of credit earned or two years in residence at the beginning of the fall quarter and new students with 90 or more credit hours and two years in residence may reside in off-campus housing. The university bears no responsibility for the living conditions or problems arising therein to either the homeowner or the student resident.

Institutional Equity

It is the policy of Ohio University that there shall be no discrimination against any individual in educational or employment opportunities because of race, color, religion, national origin, sex, status as a disabled veteran or veteran of the Vietnam era, or disability. Also, there shall be no discrimination because of age, except in compliance with requirements of retirement plans or state and federal laws and guidelines.

The Office for Institutional Equity monitors hiring, promotion, and transfer of faculty and administrators; develops and implements programs and activities that give recognition to the value of diversity; coordinates services for disabled students and employees; advises students and employees about university policies and procedures regarding nondiscrimination; investigates complaints of discrimination; and seeks to foster a climate that encourages the full realization of the university's mission to promote a just and socially responsive community. If you have a concern about possible discrimination or harassment, you are encouraged to contact the Office for Institutional Equity. In coordinating services for people with disabilities, the Office for Institutional Equity can advise you about specific resources available at Ohio University. (See the Disability Services section for details.)

Sexual Harassment. Sexual harassment of students, faculty, or staff is prohibited at Ohio University. No male or female member of the Ohio University community, including faculty, contract staff, classified staff, and students, may sexually harass any other member of the community. Sexual harassment is a form of sex discrimination under Title VII of the Civil Rights Act of 1964 and thereby is illegal under law as well as a violation of Ohio University Policy.

This policy defines sexual harassment as unwanted advances, requests for sexual favors, or other verbal or physical conduct of a sexual nature when:

- 1 submission to such conduct is made either explicitly or implicitly a term or condition of employment or of a student's status in a course, program, or activity;
- 2 submission to or rejection of such conduct is used as the basis for decisions affecting the individual; or
- 3 such conduct has the purpose or effect of unreasonably interfering with the individual's work, performance, or educational experience, or creating an intimidating, hostile, or offensive environment for work or learning.

Examples of sexual harassment (not to be construed as exhaustive) include:

- 1 physical assault;
- 2 pressure, subtle or overt, for sexual favors accompanied by implied or overt threats concerning one's job, grades, or letters of recommendation;
- 3 inappropriate display of sexually suggestive objects or pictures;
- 4 direct propositions of a sexual nature;
- 5 a pattern of conduct that would discomfort or humiliate, or both, a reasonable person at whom the conduct was directed, such as unnecessary touching, pinching, patting, or the constant brushing against another's body; use of sexually abusive language (including remarks about a person's clothing, body, bodily movement, or sexual activities); and unwanted and unwelcome teasing and joking of a sexual nature.

All Ohio University employees and students are responsible for compliance with this policy. All university supervisory personnel have an affirmative responsibility to discourage and eliminate conduct inconsistent with this policy. Complaints can be received and investigated only by employees who have been authorized by the institution. Authorization will be given only to individuals who have completed training provided by staff of the Office for Institutional Equity. Any individual who is not authorized but is approached about concerns or complaints regarding harassment **must** direct the complainant to an authorized employee. Because of their positions or the nature of their work, the following individuals, or their designees, shall have completed training and thereby be authorized to receive and investigate inquiries and complaints: representatives of each major planning unit other than the unit head (a list will be available

at the Office for Institutional Equity and the Office of Legal Affairs) and representatives from the Offices for Institutional Equity, Health Education and Wellness, University Judiciaries, Legal Affairs, Ombudsman, and Human Resources. When authorized employees are contacted with a complaint, they must consult with the Office for Institutional Equity.

Insurance, Major Medical

You are required to maintain a health insurance plan if you are registered for seven or more credit hours. To assist with this requirement, the university offers a major medical insurance plan designed to supplement the care provided by the Student Health Service. This plan is available to all students registered for seven or more hours, and those taking fewer than six hours who are participating in an internship or co-op program or completing a master's thesis or doctoral dissertation.

The plan, subject to the benefits and exclusions of the policy, provides protection against major medical and surgical expenses for the insured student at home, at school, or while traveling anywhere in the world. In addition to accident and sickness benefits, it includes repatriation, medical evacuation, and accidental death benefits.

If you are married or a single parent, the student insurance plan is also available for dependents.

Intercollegiate Athletics

Mission Statement. *The Ohio University Department of Intercollegiate Athletics will provide an NCAA Division I-A athletics program committed to supporting the educational mission of the university. The department will strive to achieve excellence and victory within intercollegiate competition at the highest level with deference to a continued commitment to fairness and integrity.*

Ohio University is a Division IA member of the National Collegiate Athletic Association (NCAA) and a charter member of the Mid-American Conference (MAC). The conference,

which was founded in 1946, also includes Akron, Ball State, Bowling Green, Buffalo, Central Michigan, Eastern Michigan, Kent, Marshall, Miami, Northern Illinois, Toledo, and Western Michigan.

The university fields a total of 20 intercollegiate teams—9 for men and 11 for women. The university offers baseball, basketball, cross country, football, golf, indoor track, swimming and diving, track, and wrestling for men. Basketball, cross country, field hockey, golf, indoor track, lacrosse, soccer, softball, swimming and diving, track, and volleyball are offered for women.

The Reese and Jacoby Trophies are awarded annually by the MAC to the institutions compiling the best overall conference records for men and women respectively. Ohio University won the 1995 Jacoby Trophy.

Athletic facilities include the 13,168-seat Convocation Center, the site of basketball, volleyball, and wrestling contests. Constructed in 1968, the building houses athletic offices, training facilities, locker rooms, and weight and equipment rooms. Peden Stadium, with its five-story Tower and seating capacity for 20,000 fans, is the home of the football Bobcats. The all-weather Goldsberry Track surrounds the field. The Aquatic Center contains an Olympic-sized pool, including sixteen 25-yard lanes, nine 50-meter lanes, and two one-meter and two three-meter diving boards. Field hockey and soccer playing fields are located along Shafer Street, and the golf teams practice at the Athens Country Club. The baseball and softball teams compete at the newly constructed Bob Wren Stadium complex. The \$2.1 million complex was completed in 1998.

If you are interested in participating in intercollegiate athletics, contact the head coach of your preferred sport as soon as possible or during the first week of the academic year.

International Students

Admission. Information on undergraduate admission for international students is available from the director of admissions, Chubb Hall. Information on graduate admission is available from the Office of Graduate Student Services, Wilson Hall.

Financial Aid. A very limited amount of financial aid is available for undergraduate international students. In no case does this cover more than a portion of tuition or other expenses. Entering international students are eligible to apply for awards based on academic promise; those already enrolled at Ohio University may apply for the same awards, and in addition, may request special aid in cases of demonstrated need. Contact the Office of Student Financial Aid and Scholarships.

International House. Shively Hall, a centrally located residence hall, offers special programs for roughly equal numbers of international and U.S. students. The emphasis is on cultural sharing and mutual understanding. A large meeting room, lounges, and a dining hall are available. International students and U.S. students with an interest in other countries are encouraged to live in this hall. Staff members, both international and U.S., are selected because of their interest and training in international affairs.

Associations. More than 20 internationally oriented student organizations exist at Ohio University, representing national, regional, religious, and social interests. They join together for special programs throughout the year. Programming reaches a high point in spring during International Week and the International Street Fair, conducted in cooperation with the City of Athens and the International Student Union.

The International Student Union (ISU) functions at Ohio University as the umbrella organization for more than 20 international student organizations and serves as the programming body for the international community on campus. ISU members come from all corners of the world, representing the collective

educational, cultural, and developmental interests of more than 100 countries.

Athens Friends of International Students (AFIS). AFIS runs a hospitality program and International Wives Club, and, on a modest scale, matches international students with local American families. Visits may be only for a dinner or an afternoon excursion, but sometimes long friendships develop from this brief opportunity to gain insight into American home life.

The International Wives Club brings together wives of foreign students on campus and interested wives of faculty and community people. It serves as a forum for ideas and information and offers a productive and easy way to participate in university life.

Ohio Program of Intensive English (OPIE). The OPIE administers English proficiency examinations to all new international students and provides intensive language instruction for those needing it. (See descriptions of courses and programs elsewhere in this catalog.)

The Office of International Student and Faculty Services.

The Office of International Student and Faculty Services offers you consultation about any concern you might have, including immigration, financial, and personal problems. All new students, as well as returning students starting a new degree program, must report to the advisor's office upon arrival. An orientation program will be conducted for a few days before the opening of each quarter to introduce new students to the campus.

The Office of International Student and Faculty Services also works with other departments and organizations on campus such as Residence Life, Student Life, International Studies, Phi Beta Delta, and the Fulbright Alumni Association to promote programs, such as cross-cultural awareness workshops, which create a supportive climate for international students.

International Women's Program.

The International Women's Program is a support group open to all women. The group meets once a week at Mill Street Apartments and provides a way for participants to share their culture with other women. Participants plan a variety of programs and excursions. Fluency in English is not required, and child care is provided.

Libraries

The University Libraries' collection is composed of more than 2 million bound volumes, more than 14,000 periodical subscriptions, and more than 2.8 million research materials including microform units, maps, photographs, cassettes, videotapes, and disks. The main library on the Athens campus is the Vernon Roger Alden Library. The seven-story building has seating accommodations for 2,800 people and is open seven days a week for a total of 102 hours.

Collections. Besides the main collection, which is arranged by the Library of Congress Classification System, the library houses separate subject and special collections: the Archives and Special Collections, Children's Collection, Government Documents, the Health Sciences Library, Instructional Media and Technology Services, Map Collection, Microforms and Nonprint Collection, and Southeast Asia Collection. In separate buildings are the Music/Dance Library and a number of departmental collections in several scientific disciplines. Each of the regional campuses also has a well established library.

The library collections on the main and regional campuses are accessible through ALICE, the Ohio University Libraries' online catalog. ALICE can also be used outside the library via a modem or network connection. Tours and instructional presentations are offered to classes and groups upon request. Subject bibliographers are available to assist with information and research needs in specific academic disciplines.

Electronic Resources. Electronic information services can assist you in identifying and obtaining resources. The library offers more than 200 electronic databases and more than 2,000 electronic journals. Most of these are available on the Internet, and others are networked on campus or within Alden Library. The libraries' Web pages link to these and also provide access to statewide resources in academic libraries through OhioLINK to national and international resources on the Internet and to the vast OCLC Worldcat database. Librarians can assist with online retrieval of information using commercial database services. Through OCLC and other networks linking libraries around the country and the world, materials in distant collections are easily accessible.

Instructional Media and Technology Services (IMTS). IMTS, located on the second floor of the library, provides audiovisual equipment and services to the entire university community. IMTS lends more than 9,000 instructional films and videotapes. Graphic and photographic production services, including CD-ROM and Web materials, are available upon faculty request. Audiovisual equipment such as projectors and recorders can be rented by registered campus student organizations. For further details, see the IMTS Website at <http://www.ohiou.edu/imts>.

For more information about the Ohio University libraries, visit our World Wide Web site: <http://www.library.ohiou.edu>

Multicultural Programs

The Office of Multicultural Programs seeks to provide a diverse range of programs and opportunities that are educational, recreational, social, and cultural. Committed to supporting and promoting multicultural awareness and appreciation, the staff develops programs that increase understanding and appreciation of cultural differences by familiarizing the campus community with the contributions and histories of African American, Hispanic/Latino American,

Asian American, and Native American cultures. Other services include:

Programming. The office plans and coordinates professional, educational, and cultural programs such as the annual Hispanic Heritage Month, Native American Awareness Week, Kwanzaa Celebration, Black History Month, Asian American Awareness Week, and the Mind, Body, and Soul Women's Conference.

Advising. The Office of Multicultural Programs has formal advising relationships with the Black Student Cultural Programming Board (BSCP); the Ohio University chapter of the National Pan-Hellenic Council (NPHC); and the Hispanic Scholars Support Program (HSSP). The office maintains an informal advising relationship with ethnic student organizations such as the Native American Awareness Coalition (NAAC), the Association of Black Psychology Students, and Alpha Psi Lambda, the co-ed Hispanic-interest fraternity. All of these organizations plan programs and activities that benefit the entire university community.

Ombudsman

The ombudsman's primary responsibility is to assist members of the university community in expediting settlement of complaints and grievances. Using broad investigative powers and direct access to all university officials of instruction and administration, the ombudsman may intervene in the bureaucratic process on your behalf when that process unnecessarily or unfairly impinges upon you. Complaints and grievances are handled with complete confidentiality.

You should first try to discuss your concerns with the person most closely associated with the situation. Should such discussion seem difficult or fail to bring acceptable results, the ombudsman may prove an invaluable aid. The ombudsman's office is in Crewson House, 115 S. Court St.

Parking/Motor Vehicle Registration

On-campus resident parking is available on a limited basis for students with sophomore status or higher. Freshman living on campus are not permitted to purchase parking. Commuter parking is available to all students who live outside a certain radius of campus. More information can be obtained at the Department of Campus Safety, 135 Scott Quad or by calling 740-593-1917. If interested in garage parking, please contact the Housing Office at Chubb Hall or call 740-593-4090.

Before students can drive or park on Ohio University property, they must register their vehicle at the Department of Campus Safety, 135 Scott Quad. Failure to register a motor vehicle or parking illegally makes the violator subject to penalties as printed on the violation/citation. Motorcycles are excluded from registration, although parking is restricted to specifically designated areas. There is no charge to register vehicles.

Parking maps are available at the Department of Campus Safety free of charge.

Campus Recreation

The Division of Campus Recreation, under the administration of the College of Health and Human Services, is committed to the health and wellness of the Ohio University community. A commitment is made to improve the quality of life by providing quality facilities and programs and ensuring customer satisfaction.

The division is composed of the Aquatic Center, Bird Ice Arena, Charles J. Ping Student Recreation Center, driving range, fields, golf course, and tennis complex; and there are programs in club sports, fitness, intramural sports, and outdoor pursuits. These areas complement one another in providing students with facilities and programs to meet their recreational interests and needs. They also fulfill university goals by encouraging physical, emotional, and social growth.

The Aquatic Center features an Olympic-sized pool that has two three-meter and two one-meter diving boards, an underwater observation area for viewing swimming and diving techniques, and a sun deck.

Bird Ice Arena is an indoor arena that features an illuminated 190-by-85-foot ice surface with fiberglass dasher boards. It provides skate rentals, a lounge area, and a concession stand.

The Ping Center is one of the largest campus recreational facilities in the country. It covers more than 168,000 square feet on three floors housing five basketball courts, two multipurpose courts, eight racquetball courts (two of which can be converted for squash and wallyball), weight, aerobic, fitness, and combative rooms, an indoor track, climbing wall, game room, meeting rooms, and a lounge.

The university golf course has nine holes and a putting green. Rentals can be made for golf equipment and carts, and a pro shop provides for the purchase of supplies. The illuminated 300-yard driving range is located on West State Street and can accommodate approximately 30 drivers.

The tennis complex, located immediately next to the Ping Center, consists of four indoor and six outdoor courts. The indoor courts are covered by a 40-foot tent structure, allowing players to compete in state-of-the-art playing conditions. A newly developed clubhouse, built between the two tennis courts, will serve as an entrance to both the tennis complex and the Ohio University golf course.

The Ping Center and the Aquatic Center, open year round, are available to students, faculty, and staff. The Aquatic Center is open to the community and alumni during lap and recreational swim times; the Ping Center is available to community and alumni on special weekend events and as guests of students, faculty, and staff. Bird Arena, golf course, and driving range operations are seasonal.

The division administers recognized club sports on campus—currently more than 30 clubs. Each club is run by students and establishes an or-

ganizational framework, leadership, and a schedule to meet the needs of its members. New clubs can be organized if they meet the needs of the university community. Many of the outdoor club sport activities take place on the south green club sports fields, the Stimson Avenue club sports fields, and the West State Street club sports fields. Use of these fields is by reservation only.

The Fitness Program offers diverse program opportunities, including an aerobics schedule ranging from traditional Step and Hi/Lo to Aerobox and Sport Conditioning classes. Instructional programs offer exciting activities such as Yoga and Pilates®. Personal fitness training and fitness assessments also are available.

The Intramural Sports Program offers activities for men and women that involve individual, dual, and team competition. Activities include football, basketball, baseball, broomball, volleyball, innertube water polo, wall climbing, softball, tennis, racquetball, bowling, golf, squash, billiards, table tennis, swimming, floor hockey, soccer, indoor soccer, and wallyball. A coed program for dual and team competition is offered for most activities. All outdoor intramural sports are played on the Mill Street intramural sports field complex (four flag football fields, two soccer fields, five softball fields), the Ohio University tennis court complex, and the Athens West State Street baseball field. Use of all intramural sports fields is by reservation only.

The Outdoor Pursuits Program provides opportunities for outdoor adventure sports and activities. It offers various outdoor trips, a gear-rental program, outdoor clinics, a library of outdoor subjects, and a climbing wall. The Outdoor Pursuits Program is housed in the Ping Center.

The division also offers recreational special events throughout the year. For more information on facilities and programs, call 740-593-9901.

Residence Life

The Department of Residence Life supports the educational goals of the university in the residence halls. The staff promotes community living, fosters the development of individuals and groups within the living environment, and provides support and information to residents.

Residence life offices are located on each green (East, South, and West). A central office is located on the College Green.

Each green has full-time professional and paraprofessional live-in staff that has been carefully selected and trained to offer informed and meaningful assistance. The staff-to-student ratio in upperclass halls is about 1:35, while in freshman halls it is 1:26. The department also coordinates a student security aide program.

Services offered by this department include providing a safe and healthful environment conducive to sound academic pursuit; creating opportunities for growth and development through educational, recreational, social, and cultural programming; involving faculty in the residence halls as faculty associates and resource people; meeting the needs of students through the use of special-interest housing (intensive study, honors, academic emphasis); promoting student involvement and leadership by encouraging participation in hall government; emphasizing the concepts of responsibility, respect, and consideration for others; interpreting university policies and procedures; serving as an information source and referral agent to other university services; and providing confidential personal advising for such concerns as adjustment, academic performance, substance abuse, and relationships.

Much of the learning that occurs during the collegiate experience takes place outside the formal classroom setting. The living-learning atmosphere of the residence hall is one of the prime catalysts in this growth process. While each residence hall is unique in character and spirit, they all offer the opportunity to meet, interact with, and learn from a very diverse student population.

Speech and Hearing Clinic

The Ohio University Speech and Hearing Clinic offers diagnostic and treatment services to university students, faculty, staff, and members of the community. Services are available to all age groups from infants to adults. A fee list is available upon request. Services to students are provided at a fraction of the usual fee.

Speech and language services cover such areas as articulation, language, stuttering and voice. Audiology services include the identification and management of problems in hearing and balance, including the selection and use of hearing aids, auditory processing and developmental communication problems posed by hearing loss.

The clinic operates five days per week and is staffed by graduate students majoring in Hearing and Speech Sciences under the continuous supervision of fully licensed and credentialed faculty and staff.

For assistance with a speech, language, or hearing question, inquire at the clinic office in Lindley Hall between 8 a.m. and 5 p.m., Monday through Friday. Clinic services are available throughout the year.

Student Activities

The Office of Student Activities (OSA) is your connection to campus and community involvement — the place where you can discover everything you want to know about student organizations, campus programs, Greek life, and leadership development. If you want to get involved in campus life, stop by our office in Baker Center 204 or call 740-593-4025.

Leadership Development Programs. Effective leadership skills can help you on campus and after graduation. The Office of Student Activities sponsors a variety of programs to help you learn about leadership and develop your leadership potential.

Campus Programs manages a variety of programs and lets everyone know about campus events. We advise University Program Council (UPC), plan special event weekends, and supply event information to the university community. UPC brings cultural, social, recreational, educational, and entertainment programs to the university in collaboration with the International Student Union (ISU), the Black Student Cultural Programming Board (BSCPB), and the Residence Action Committee (tRAC). In addition to enjoying UPC's events, you can become involved in one of its committees: concerts, communication, cultural arts and lectures, entertainment, or film and video.

Greek Life. Sororities and fraternities have been a part of campus life since 1841. Today, the Greek community consists of 27 national sororities and fraternities, with approximately 15 percent of the student body participating as members. Involvement includes a wide range of social, educational, and philanthropic activity, as well as leadership opportunities within the Intrafraternity Council, the National Pan-Hellenic Council, and the Women's Panhellenic Association.

Student Organizations. Ohio University has more than 350 student organizations to explore. Becoming involved can help you perform better in other areas of life and feel more a part of the university. You'll learn about community and about effective membership and leadership.

Honor Societies. These national organizations confer memberships in recognition of high scholastic attainment and the fulfillment of other requirements. Honor societies encourage the development of a well rounded personality and leadership and service qualities in addition to academic achievement.

Alpha Lambda Delta, *Scholarship*
Alpha Pi Mu, *Industrial Engineering*
Arnold Air Society, *Aerospace Studies*
Association for Women in Communications, *Journalism*
Beta Alpha Psi, *Accounting*
Beta Beta Beta, *Biology*
Delta Phi Alpha, *German*

Delta Sigma Pi, *Business Administration*
 Eta Sigma Phi, *Classics*
 Gamma Pi Delta, *Nontraditional Students*
 Gamma Theta Upsilon, *Geography*
 Golden Key, *Scholarship*
 Kappa Delta Pi, *Education*
 Kappa Kappa Psi, *Band*
 Lambda Pi Eta, *Communications*
 Mortar Board, *Scholarship, Activities*
 National Broadcasting Society, *Broadcasting*
 Omicron Delta Kappa, *National Honor*
 Order of Omega, *Greek Leadership*
 Phi Alpha Honor Society, *Social Work*
 Phi Gamma Nu, *Business*
 Phi Mu Alpha, *Music*
 Phi Sigma Iota, *Romance Languages*
 Phi Upsilon Omicron, *Home Economics*
 Pi Gamma Mu, *Political Science, Social Sciences*
 Psi Chi, *Psychology*
 Rho Lambda, *National Greek Honorary*
 Sigma Delta Pi, *Spanish*
 Sigma Sigma Phi, *Osteopathic Medicine*
 Society of Professional Journalists
 Tau Beta Pi, *Engineering*
 Tau Beta Sigma, *Band*

Student Senate

Student Senate is the elected representative voice of the student body and is part of the network of campus governmental bodies that also includes the Administrative Senate, Classified Senate, Faculty Senate, and Graduate Student Senate. Student Senate initiates programs and coordinates activities beneficial to students. Student Senate is responsible for the appointment of undergraduate students to university committees, and for allocating more than \$348,000 a year to student organizations. You are encouraged to contact the Student Senate for help in resolving issues and for information regarding programs and projects.

University Center

The John Calhoun Baker University Center is a focal point of cocurricular life at Ohio University. A variety of facilities, programs, and services are provided to the university community.

The Recreation Room, located in the basement, has eight regulation bowling lanes, 11 pool tables, and a wide variety of video and pinball games.

The Front Room, a campus coffee-house, serves espresso, cappuccino, and specialty gourmet coffees, as well as tea, soda, seltzers, and juices. Also available are locally produced baked goods. Open seven days a week until midnight, it is a popular place to meet friends. Activities are planned for every night and include dance nights, talent shows, open stage, poetry readings, lectures, Comedy Class Live, and live performances by local and regional jazz, rock, country, and rhythm and blues artists.

The State Room, located on the first floor, serves lunch daily. Also available are private rooms for luncheon meetings and a catering service.

The Information Center in the main lobby offers a computerized campus calendar listing university events, programs, and academic information; check cashing; notary public services; an automatic teller machine; e-mail access; free telephones for local calls; paper and pen sales; and up-to-date listings of student, faculty, staff, organizations, departments, and committees. Adjacent to the lobby are a United States Postal Station, the 1954 Lounge, the Alumni Lounge, and the 1804 Lounge, with a grand piano. Ride and housing boards and coin-operated lockers are also available.

Meeting and reception rooms are available in Baker Center for groups from 10 to 500. Available are a ballroom, the Alumni Lounge and the 1804 Lounge, as well as 10 meeting rooms of various sizes. Reservations can be made at the director's office, Room 201. Baker Center also houses the Office of Student Activities, the Office of

Multicultural Programs, the Dean of Students Office, and the following student organizations:

<i>Athena</i> Yearbook	320
Black Student Cultural Programming Board	419
Interfraternity Council	312
International Student Union	425
National Pan-Hellenic Council	313
The Post	Ground floor
Student Activities Commission	311
Student Senate	308
Students Defending Students	328
University Program Council (UPC)	407
Women's Panhellenic Association	3

Colleges and Curricula

Academic Organization

Ohio University offers curricula in 276 undergraduate majors leading to bachelor's or associate's degrees through nine colleges: Arts and Sciences, Business, Communication, Education, Engineering and Technology, Fine Arts, Health and Human Services, Honors Tutorial, and University. Programs are also offered through the Center for International Studies, the Division of Lifelong Learning, and the College of Osteopathic Medicine. The Office of Graduate Student Services coordinates graduate study at Ohio University.

Ohio University is fully accredited by the North Central Association of Colleges and Schools at the bachelor's, master's, and doctoral levels. In addition, numerous departments, schools, and colleges within the university hold individual accreditation as listed below. Additional information is available from the office of each college's dean.

The following list of colleges and areas includes degrees, accrediting agencies, and schools and departments.

College of Arts and Sciences

Curricula leading to the Bachelor of Arts and Bachelor of Science degrees. Preprofessional curricula; preparation for teaching at the secondary level.

Accreditation

American Psychological Association

Council on Social Work Education

Departments

African American Studies

Biological Sciences

Chemistry and Biochemistry

Classics

Economics

English

Environmental and Plant Biology

Geography

Geological Sciences

History

Linguistics

Mathematics

Modern Languages

Ohio Program of Intensive English*

Philosophy

Physics and Astronomy

Political Science

Psychology

Social Work

Sociology and Anthropology

Women's Studies*

*not a degree program

College of Business

Curricula leading to the Bachelor of Business Administration degree.

Accreditation

AACSB—The International Association of Management Education

Departments/Schools

Accountancy

Finance

Management Information Systems

Management Systems

Marketing

College of Communication

Curricula leading to the Bachelor of Science in Communication, Bachelor of Science in Journalism, and Bachelor of Science in Visual Communication degrees.

Accreditation

Accrediting Council on Education for Journalism and Mass Communication

Schools

Communication Systems Management
Interpersonal Communication
Journalism
Telecommunications
Visual Communication

College of Education

Teacher training curricula leading to the Bachelor of Science in Education degree; supervision of student teaching and other field experiences in education.

Accreditation

National Council for Accreditation of Teacher Education

Departments

Counseling and Higher Education
Educational Studies
Teacher Education

Russ College of Engineering and Technology

Curricula leading to the Bachelor of Science in Aviation, Chemical Engineering, Civil Engineering, Computer Science, Electrical Engineering, Industrial and Systems Engineering, Industrial Technology, and Mechanical Engineering.

Accreditation

Accreditation Board for Engineering and Technology

National Association of Industrial Technology

Departments/Schools

Aviation
Chemical Engineering
Civil Engineering
Electrical Engineering and Computer Science
Industrial and Manufacturing Systems Engineering
Industrial Technology
Mechanical Engineering

College of Fine Arts

Curricula leading to the Bachelor of Fine Arts and Bachelor of Music degrees.

Accreditation

National Association of Schools of Dance
National Association of Schools of Music
National Association of Schools of Theater

Schools

Art
Comparative Arts
Dance
Film
Music
Theater

College of Health and Human Services

Curricula leading to the Bachelor of Science in Athletic Training, Environmental Health, Health, Hearing and Speech Sciences, Human and Consumer Sciences, Industrial Hygiene, Nursing, Physical Education, Recreation Studies, and Sport Sciences; entry-level graduate curriculum leading to the Master of Physical Therapy.

Accreditation

Accreditation Board for Engineering and Technology

American Boards of Examiners in Speech Pathology and Audiology

American Dietetic Association

American Association for Family and Consumer Sciences

Commission on Accreditation for Physical Therapy Education

Foundation for Interior Design, Education, and Research

National Association of Boards of Examiners for Nursing Home Administrators

National Athletic Trainer's Association

National Environmental Health Science and Protection Accrediting Council

National League for Nursing

Schools

Health Sciences
Hearing and Speech Sciences
Human and Consumer Sciences
Nursing
Physical Therapy
Recreation and Sport Sciences

Honors Tutorial College

A degree college with 25 specialized majors, some of which can be completed in three years. Selected undergraduates take tutorials in their majors, courses as required by academic departments, and electives as desired. If you are admitted to a tutorial program, you are exempt from General Education Requirements, except English composition, but depending upon your major, you may be required to undertake an advanced creative or thesis project. A high percentage of the students in this college enter graduate or professional school. You may request consideration for admission to the Honors Tutorial College and must indicate a major at the time of application.

University College

College for students who have not decided on a major. Two-year programs leading to the Associate in Arts, Associate in Science, Associate in Applied Science, Associate in Applied Business, and Associate in Individualized Studies degrees. Four-year programs leading to the Bachelor of Specialized Studies and Bachelor of Criminal Justice degrees. Two and four-year Reserve Officers' Training Corps programs leading to commissions in the U.S. Army and the U.S. Air Force.

Office of Graduate Student Services

Programs leading to the Master of Arts, Master of Business Administration, Master of Education, Master of Fine Arts, Master of Health Administration, Master of Physical Therapy, Master of Public Administration, Master of Science, Master of Social Work, Master of Sports Administration, Doctor of Education, and Doctor of Philosophy degrees. (See the *Graduate Catalog* for specific programs and majors.)

Center for International Studies

Jointly administers a Bachelor of Arts in International Studies with the College of Arts and Sciences. For non-majors, the Center offers certificates in:

- African Studies
- Asian Studies
- European Studies
- Latin American Studies.

Division of Lifelong Learning

Provides educational opportunities beyond the regular channels of the university by using the resources of the university in nontraditional ways.

Adult Learning Services
Continuing Education, Conferences,
and Workshops
Independent Study (see separate catalog)
Summer Sessions

College of Osteopathic Medicine

Offers a four-year medical education program leading to the Doctor of Osteopathic Medicine degree (see separate catalog) and postdoctoral programs in family practice, general surgery, orthopedics, pediatrics, and obstetrics and gynecology. Accredited by the American Osteopathic Association.

Regional Campuses

Chillicothe
Eastern (St. Clairsville)
Lancaster
Southern (Ironton)
Zanesville

Major Codes

The following is a listing of undergraduate major codes arranged by the college in which each major is offered. Some programs and majors are offered through more than one college, and not all majors are open to incoming freshmen. For specific information on a particular program, see the appropriate college section of the catalog.

Major Code Prefixes

The two-letter prefix of each major code indicates the type of degree awarded in that major. In some cases, it indicates that an additional application process is required for admission to the major.

AA	Associate in Arts
AAS	Associate in Applied Science
AS	Associate in Science
BA	Bachelor of Arts
BB	Bachelor of Business Administration
BC	Bachelor of Science in Communication
BF	Bachelor of Fine Arts
BJ	Bachelor of Science in Journalism
BM	Bachelor of Music
BS	Bachelor of Science
ND	Nondegree program
SA	Separate application required

College of Arts and Sciences

Some of the majors in this college have two major codes. In general, with these majors you have the option of choosing *either* a degree program that is more hard sciences oriented (BS) or one that is more liberal arts/humanities oriented (BA). Details on curricular differences can be found in the College of Arts and Sciences section under the specific program listings. You may want to consult with an admissions officer or a college representative about which option is more suitable for you.

BA4903	African American Studies
BA4252	Anthropology

BS2121	Biological Sciences
BS2123	Clinical Laboratory Science
BS2509	Environmental Biology
BS2514	Marine Biology
BS0411	Microbiology
BS2125	Neurobiology
BS2501	Pedentistry
BS2516	Pre-Exercise Physiology
BS2502	Premedicine
BS2505	Pre-Optometry
ND2506	Prepharmacy ¹
BS2507	Pre-Physical Therapy
BS2508	Pre-Veterinary Medicine
BS2515	Wildlife Biology
	Chemistry and Biochemistry
BS3311, BA3311	Chemistry
BS3316	Biochemistry
BS3315, BA3315	Environmental Chemistry
BS3310	Forensic Chemistry
BS3312, BA3312	Pedentistry
BS3313	Prepharmacy
BS3314, BA3314	Premedicine
	Classics
BA5214	Classical Civilization
BA5212	Greek
BA5213	Greek and Latin
BA5211	Latin
BS0701, BA0701	Computer Science
BA4221	Economics
BA4223	Pre-Foreign Service
BA4222	Prelaw
BA5231	English
BA5232	Creative Writing
BA5234	Prelaw
BA5233	Pretheology

	Environmental and Plant Biology
BS2118	Cell Biology and Biotechnology
BS2113	Environmental Biology
BS2115	Field Biology
BS2111, BA2111	Plant Biology
	Environmental Studies (see Biological Sciences, Chemistry and Biochemistry, Environmental and Plant Biology, Geography, and Geological Sciences)
BS4231, BA4231	Geography
BS4236, BA4236	Cartography
BS4232	Environmental
BS4237	Environmental Prelaw
BS4235	Geographic Information Systems Analyst
BS4233	Premeteorology
BS4234, BA4234	Urban Planning
BS3321, BA3321	Geological Sciences
BS3323	Environmental
BS3322	Water Resources
BA4211	History
BA4212	Pre-Foreign Service
BA4214	Prelaw
BA4213	Pretheology
	International Studies
BA4405	Africa
BA4406	Asia
BA4407	Europe
BA4408	Latin America
BA5290	Linguistics
BS3101, BA3101	Mathematics
BS3105, BA3105	Actuarial Sciences
BS3103	Applied
BS3104, BA3104	Premeteorology
BS3102, BA3102	Prep. for Advanced Training
	Modern Languages
BA5221	French
BA5222	German
BA5224	Russian
BA5225	Spanish
BA5241	Philosophy
BA5244	Prelaw
BA5242	Pretheology

BS3331, BA3331	Physics
BS3332	Applied Physics
BS3335	Pre-Astronomy
BS3336	Premeteorology
BS3334	Prep. for Advanced Training
BA4201	Political Science
BA4202	Pre-Foreign Ser- vice
BA4203	Prelaw
BA4200	Public Policy and Administration
BA4101	Psychology
BA4105	Pre-Physical Therapy
BA6601	Social Work ²
ND6603	Pre-Social Work ¹
BA4251	Sociology
BA4253	Criminology
BA4254	Prelaw
BA5131	Theater
ND0410	Undecided

¹ This preprofessional program does not fulfill any degree but is intended as preparation for admission into a professional school or program.

² Not open to freshmen; you must complete the Pre-Social Work Program before you can become a social work major.

College of Business

BB6121	Accounting
BB6124	Business Economics
BB6133	Business Entrepreneurship
BB6120	Business Prelaw
BB6125	Finance
BB6122	General Business
BB6130	Human Resource Management
BB6132	International Business
BB6126	Management
BB6137	Management Information Systems
BB6127	Marketing
ND0610	Undecided

College of Communication

BC5329	Communication Systems Management (technical electives in data networks, system security, international communication, and policy)
	Interpersonal Communication
BC5339	Communication in Human Services
BC5341	Legal Communication
BC5342	Organizational Communication
BC5343	Political Communication
	Journalism
BJ6932	Advertising Management
BJ6936	Broadcast News
BJ6933	Magazine Journalism
BJ6934	News Writing and Editing
BJ6935	Public Relations
	Telecommunications
BC5336	Audio Production
BC5312	Management
BC5311	Media Studies
BC5313	Video Production
	Visual Communication
BS6924	Informational Graphics/Publi- cation Design
BS6923	Interactive Multimedia
BS6922	Photo Journalism
BS6925	Photo Illustration

College of Education

	Adolescent-Young Adult Programs
BS6201	Art Education ¹
BS6314	Biology/Life Science
BS6315	Earth/Space Science
BS6306	Integrated Language Arts
BS6307	Integrated Math
BS6309	Integrated Science
BS6308	Integrated Social Studies

Modern Languages

BS6232	French
BS6235	Spanish
BS6233	German

Music Education¹

BS6241	Instrumental Emphasis
BS6242	Choral Emphasis

BS6312 Physical Educa-
tion²

BS6310 Physical Science

BS6854 Early Childhood
Education²

Intervention Specialist Education

BS6316 Mild-Moderate
Educational Needs

BS6317 Moderate-
Intensive Educa-
tional Needs

Middle Childhood Education

BS6302 Language Arts

BS6303 Mathematics

BS6304 Science

BS6305 Social Studies

ND0810 Undecided

¹ Offered in both the College of Education and the College of Fine Arts. You may receive teacher licensure regardless of the college in which you enroll.

² Offered in both the College of Education and the College of Health and Human Services. You may receive teacher licensure regardless of the college in which you enroll.

Russ College of Engineering and Technology

	Aviation
BS7261	Aviation Management
BS7258	Flight
BS7251	Chemical Engineering (technical electives in environmental engineering, materials science and processing, and biochemical engineering)

B57252 Civil Engineering
(technical electives
in environmental
engineering, geo-
technical engineer-
ing, pavements,
surveying, struc-
tural mechanics
and design, trans-
portation and
water resources)

B57260 Computer Science
(areas of special-
ization in artificial
intelligence,
computer network-
ing, computer
science theory,
database systems,
operating systems,
parallel processing/
compilers, and
software
engineering)

**B57253 Electrical Engineer-
ing: electrical
engineering track**
(technical electives
in avionics, circuit
design, communica-
tion, computers,
control systems,
electromagnetics,
electronics and
instrumentation,
energy sources
and systems, and
power transmission
and distribution)

**B57254 Electrical Engi-
neering: computer
engineering track**

**B57255 Industrial and
Manufacturing
Systems
Engineering**
(technical electives
in manufacturing
systems, manufac-
turing informa-
tion systems,
quality systems,
operations
research, and
human factors)

**B57256 Industrial
Technology**
(includes minor in
business)

**B57257 Mechanical
Engineering**
(technical electives
in energy, thermal
systems, CAD/CAM,
materials process-
ing, vehicle
dynamics, robotics,
manufacturing,
and machine
design)

ND0910 Undecided

College of Fine Arts

ND5153 General Art
BF5122 Art Education¹
BF5123 Art History¹
BF5127 Ceramics¹
BF6321 Graphic Design¹
BF5124 Painting¹
BF5143 Photography¹
BF5128 Printmaking¹
BF5126 Sculpture¹

BF5151 Dance

Music
BM5105 Music Composition
BM5106 Music Education—
Choral
BM5107 Music Education—
Instrumental
BM5114 Music History and
Literature
BM5116 Music Theory
BM5115 Music Therapy
BM5119 Music Therapy/
Education
BM5103 Orchestral
Instruments
BM5102 Organ Performance
ND5117 Pre-Music
BM5104 Piano Pedagogy
BM5100 Piano Performance
BM5101 Voice Performance

Theater
BF5137 General Theater
BF5164 Directing¹
BF5166 Dramaturgy¹
BF5167 Management
BF5161 Performance¹
BF5165 Playwriting¹
BF5162 Production Design
and Technology¹

ND1010 Undecided

ND9917 Nondegree

College of Health and Human Services

Health Sciences
BS8105 Community
Health Services
BS6260 Environmental
Health Science
BS8119 Health Services
Administration
BS3309 Industrial Hygiene
BS6836 Long-Term Health
Care Administration

**B55305 Hearing and
Speech Sciences**

**Human and
Consumer
Sciences**
BS6360 Dietetics
BS6355 Early Childhood
Education¹
BS6370 Family and
Consumer Sciences
Education¹

BS6351 Family Studies
BS6361 Food Service
Management
BS6383 Interior Design
BS6363 Nutrition with
Science
BS6380 Retail
Merchandising

Nursing
BS1203 Baccalaureate
Nursing²
ND1204 School Nurse²
Physical Therapy³

**Recreation and
Sport Sciences**
SA8117 Athletic Training/
Exercise Physiology⁴

BS8106 Physical
Education¹

Recreation Studies
BS8113 Adventure
Recreation
BS8108 Outdoor Education
BS8109 Recreation
Management
BS8110 Recreation—Special
Interests
BS8104 Therapeutic
Recreation
Sport Sciences

¹ Not open to freshmen; apply initially as a
General Art or General Theater major.

BS8122	Exercise Physiology
BS8123	Sport Industry
ND0210	Undecided

- ¹ Offered in both the College of Health and Human Services and the College of Education. Apply initially to the College of Health and Human Services. You may receive teacher licensure regardless of the college in which you enroll.
- ² Not open to freshmen—available only to registered nurses.
- ³ Not open to freshmen—selective admission master's program. Enter through a preparatory program such as Biological Sciences Pre-Physical Therapy or Psychology Pre-Physical Therapy in the College of Arts and Sciences, or Sport Sciences—Exercise Physiology in the College of Health and Human Services. You must apply for the master's program through the School of Physical Therapy.
- ⁴ Selective admission program. You must submit a separate application and additional credentials in addition to applying to the university. Consult the program listing for details.

Honors Tutorial College

Some of the majors listed below have two major codes, of which you will select one. In general, the second option (BA) provides a curriculum that is more liberal arts oriented. You may want to consult with an admissions officer or a college representative regarding which option is more suitable for you.

BS1902	Biological Sciences
BB1926	Business
BS1904	Chemistry
BS1929	Computer Science
BF1906	Dance
BS1910, BA1910	Economics
BS1925	Engineering Physics
BA1916	English
BS1901	Environmental and Plant Biology
BF1924	Film
BA1914	French
BS1911, BA1911	Geography

BS1919	Hearing and Speech Sciences
BA1909	History
BC1918	Interpersonal Communication
BJ1923	Journalism
BS1903	Mathematics
BA1917	Philosophy
BS1905	Physics/Astronomy
BA1908	Political Science
BA1930	Social Work
BA1912	Sociology/ Sociology Criminology
BA1915	Spanish
BC1920	Telecommunications
BF1913, BA1913	Theater

University College

	Associate in Applied Science
AA7250	Aviation Technology
AA1106	Child Development
	Associate in Arts
AA1101	Arts and Humanities Emphasis
AA1110	Social Sciences Emphasis
SA5508	Associate in Individualized Studies ¹
AS1104	Associate in Science
SA2209	Bachelor of Criminal Justice ²
SA1112	Bachelor of Specialized Studies ³
ND1201	Undecided

Regional Campuses

The following University College associate's degrees are available on all regional campuses:

AA1101	Associate in Arts Arts and Humanities Emphasis
AA1110	Social Sciences Emphasis
AS1104	Associate in Science

Chillicothe Campus

SA5508	Associate in Individualized Studies ¹
AA5006	Business Management Technology
AA501B	Environmental Engineering Technology
AA5004	Hazardous Materials Technology
AA5201	Human Services Technology
AA5505	Law Enforcement Technology
SA2341	Nursing, RN
AA5014	Office Technology
AA5506	Security/Safety Technology

Lancaster Campus

SA5508	Associate in Individualized Studies ¹
AA5002	Accounting Technology
AA5006	Business Management Technology
AA1106	Child Development
AA5010	Computer Science Technology
AA531B	Electronics Technology
AA5019	Medical Assisting Technology
AA5014	Office Technology

Southern Campus

AA5002	Accounting Technology
AA5006	Business Management Technology
AA5013	Electronic Media
AA5318	Electronics Technology
AA5017	Equine Studies
AA5201	Human Services Technology
AA5505	Law Enforcement Technology
AA5014	Office Technology
AA5016	Travel and Tourism

Zanesville Campus

SA5508	Associate in Individualized Studies ¹
AA5013	Electronic Media
5A2341	Nursing, RN

Minor Codes

In general, all academic minors are open to any student pursuing a baccalaureate program at the university. Detailed information for each minor is listed in the catalog section of the college through which the minor is offered; check the index for the specific location.

OR4903 African American Studies

OR4252 Anthropology

ORARTM Art

ORA5TR Astronomy

OR6360 Basic and Applied Nutrition

OR2121 Biological Sciences

ORB5AD Business

OR3311 Chemistry

OR5214 Classical Civilization

ORCART Comparative Arts

OR0701 Computer Science

OR5151 Dance

OR4221 Economics

OR5231 English

ORFILM Film

OR5221 French

OR4231 Geography

OR3321 Geological Sciences

OR5222 German

OR5212 Greek

OR4211 History

ORINCO Interpersonal Communication

OR5211 Latin

OR5290 Linguistics

OR3101 Mathematics

OR0411 Microbiology

ORMUSI Music

OR5241 Philosophy

OR3331 Physics

OR2111 Plant Biology

OR4201 Political Science

OR4101 Psychology

OR8109 Recreation

OR6380 Retail Merchandising

OR5224 Russian

OR6602 Social Services

OR4251 Sociology

OR5225 Spanish

ORTCOM Telecommunications

ORTHAR Theater

¹ Separate application required.

² Requires an associate's degree in an area related to criminal justice for admission. Not open to first-year students.

³ Separate application required. Not open to first-year students.

Certificate Programs

The certificate programs listed on this page are open to all students pursuing baccalaureate programs at the university, regardless of college or major. The equivalent of minors, these interdisciplinary programs can complement your major, broaden your career possibilities, or allow you to study an area of interest from a variety of perspectives. You will be awarded the certificate and receive official recognition on your transcript when you graduate. Please note that these certificate programs are not related to teaching or other professional certification conferred by outside agencies.

Environmental Studies

The field of environmental studies encompasses the complex interactions among humans, other organisms, and the biophysical environment. The Environmental Studies Certificate Program is offered by the College of Arts and Sciences for students who want to gain knowledge and understanding about the interdisciplinary field of environmental studies.

You can earn a certificate in environmental studies by completing 32–35 hours that include required introductory and ecology courses and approved selections from the areas of quantitative skills, natural sciences, and social sciences. Many certificate courses satisfy both Tier and Arts and Sciences requirements. Further, courses taken as part of an Arts and Sciences major will also count toward fulfilling the certificate.

For additional information and a list of approved courses, see the complete program description in the Arts and Sciences section.

Gerontology

The College of Health and Human Services, through its Institute for the College of Health and Human Services, and the College of Arts and Sciences jointly sponsor the undergraduate Gerontology Certificate Program for students who want to gain knowledge and skills for a career that involves working with the elderly. You can earn the certificate by completing at least 28 credit hours of selected coursework, including an approved practicum, field experience, or internship.

For additional information and a list of approved courses, see the complete program description in the Health and Human Services section.

International Studies

The Center for International Studies offers certificates in African, Asian, European, and Latin American Studies for students who wish to add an international dimension to their program of study, as well as for those interested in international careers or who are planning graduate work in area studies.

Earning the certificate involves completing seven to nine approved courses relating to the area of study—including language courses, in some cases—with an overall g.p.a. of 2.5 in courses taken toward the certificate.

For additional information, see the complete program description in the Arts and Sciences section.

Political Communication

The College of Arts and Sciences and the College of Communication jointly sponsor a certificate in political communication for students who wish to supplement their major with an inquiry into the area of political communication. Political communication encompasses the interactions of political figures, political interests, the press, and the public in their efforts to persuade and influence political outcomes.

To receive a certificate in political communication, you must complete two introductory courses and an additional 22 quarter hours of approved coursework.

For additional information and a list of approved courses, see the complete program description in the Arts and Sciences section.

Women's Studies

Students in any major may earn the Women's Studies Certificate by completing three required Women's Studies courses and an additional 18 quarter hours of approved coursework.

For additional information and a list of approved courses, see the complete program description in the Arts and Sciences section.

College of Arts and Sciences

Wilson Hall, College Green

Leslie Flemming
Dean

Roger Rollins
Associate Dean

Maureen Weissenrieder
Associate Dean

Kathleen S. Schumacher
Assistant Dean for Student Affairs

Karen Dahn
*Assistant to the Dean
for Student Affairs*

Erek Perry
*Assistant to the Dean
for Recruitment and Retention*

Since 1804, the central purpose of the College of Arts and Sciences has been to provide students with a strong liberal arts education. As Ohio University prepares to enter into its third century, the college remains dedicated to leading students to an enlightened sense of themselves and their world by providing a sound education in the liberal arts.

The objectives of a liberal education are achieved through courses that allow students to think critically about important ideas of the past as well as the present. In the pursuit of learning, you are provided the opportunity to think beyond yourself in preparation for life. A liberal arts education, both in breadth and approach, provides not only the specific knowledge and skills required for careers in today's changing society, but encourages a lifetime quest for active learning.

As a student in the College of Arts and Sciences, you are offered an expanded and modern curriculum while continuing to be guided by the principles of a liberal tradition. Whether you pursue a Bachelor of Arts (B.A.) or a Bachelor of Science (B.S.) degree, you will obtain specialized knowledge through a major field of study while acquiring a fundamental education in foreign languages and other humanities, the social sciences, and natural sciences. With the university's General Education Requirements as a foundation, college requirements are designed to allow generous opportunity for you to elect from hundreds of courses in the humanities and the social and natural sciences in addition to a traditional major. If you require a more structured undergraduate program to prepare for a specific educational or career objective, you may choose a major from among the special curricula.

The College of Arts and Sciences has the distinction of being the largest and oldest college at Ohio University. Comprising 19 departments, the college provides 26 regular major programs, 56 special curricula in specific career-related areas, 4 majors offered in cooperation with other colleges, 28 minors, and 5 certificate programs. Further opportunities for educational enrichment are offered through the many study-abroad programs coordinated by the college.

College and departmental requirements for the B.A. and B.S. degrees are described in detail on the following pages and in the Majors, Minors, and Certificate Programs section.

Departments

The College of Arts and Sciences comprises the following 19 academic departments:

African American Studies
Biological Sciences
Chemistry and Biochemistry
Classics
Economics
English
Environmental and Plant Biology
Geography
Geological Sciences

History
Linguistics
Mathematics
Modern Languages
Philosophy
Physics and Astronomy
Political Science
Psychology
Social Work
Sociology and Anthropology

The college also includes the following six programs:

Master of Public Administration Program

Master of Environmental Studies Program

Master of Social Studies Program

Ohio Program of Intensive English (OPIE)

Ph.D. in Molecular and Cellular Biology Program

Women's Studies Program

Departments offering master's programs are Economics, Geography, Geological Sciences, Linguistics, Modern Languages, Philosophy, Political Science, and Sociology and Anthropology. Master's and doctoral programs are offered by the Departments of Biological Sciences, Chemistry and Biochemistry, English, Environmental and Plant Biology, History, Mathematics, Physics and Astronomy, and Psychology. Further information about the advanced degree programs can be found in the Ohio University *Graduate Catalog*.

Office of Student Affairs

The College of Arts and Sciences Office of Student Affairs assists students in administrative matters related to academics, maintains records of academic progress, and approves candidates for graduation. The office is on the first floor of Wilson Hall on the College Green.

Degrees, Majors, Minors, and Certificates

The college offers two four-year degrees: the Bachelor of Arts (B.A.) and the Bachelor of Science (B.S.). The B.A. and B.S. degree programs differ in the language requirements (see "Foreign Language Requirements") and in specific major course requirements as established by the department. Regardless of major, all Arts and Sciences degree students must meet basically consistent requirements for any particular program. For most majors, the B.A. or B.S. designation is not subject to student preference but is determined by the program.

B.A. Degree Programs

A major for the B.A. degree may be completed in the following areas. This list is in alphabetical order by department and includes both traditional majors and special curricula (in italics):

African American Studies
African American Studies

Anthropology
Anthropology

Chemistry and Biochemistry
Chemistry
Environmental Chemistry
Predentistry
Premedicine

Classics
Classical Civilization
Greek
Greek and Latin
Latin

Computer Science
Computer Science**

Economics
Economics
Pre-Foreign Service
Prelaw

English
English
Creative Writing
Prelaw
Pretheology

Environmental and Plant Biology
Plant Biology

Geography
Geography
Cartography
Urban and Regional Planning

Geological Sciences
Geological Sciences

History
History
Pre-Foreign Service
Prelaw
Pretheology

International Studies
International Studies—Africa
International Studies—Asia
International Studies—Europe
International Studies—Latin America

Linguistics
Linguistics

Mathematics
Mathematics
Premeteorology
Prep. for Actuarial Sciences
Prep. for Advanced Training

Modern Languages
French
German
Russian
Spanish

Philosophy
Philosophy
Prelaw
Pretheology

Physics and Astronomy
Physics

Political Science
Political Science
Pre-Foreign Service
Prelaw
Public Policy and Administration

Psychology
Psychology
Pre-Physical Therapy

Social Work
Pre-Social Work*
Social Work

Sociology
Criminology
Prelaw
Sociology

* These preprofessional programs do not fulfill any degree program but are intended as preparation for admission into a professional school or program.

** Computer science majors can choose to earn a B.A. or B.S. from the College of Arts and Sciences or a B.S.C.S. from the Russ College of Engineering and Technology.

B.A. Majors Outside the College

Arts and Sciences students may earn a B.A. from the College of Arts and Sciences by completing a major in one of the following schools outside the college: Art, Interpersonal Communication, Music, or Theater. Except for Theater, admission into any of these programs is by special arrangement and requires the permission of the director of the appropriate school. All selective admission policies apply. For more information, inquire at the College of Arts and Sciences Student Affairs Office.

B.S. Degree Programs

A major for the B.S. degree may be completed in the following areas. This list is in alphabetical order by department and includes both traditional majors and special curricula (in italics):

Biological Sciences

Biological Sciences
Clinical Laboratory Science
Environmental Biology
Marine Biology
 Microbiology
 Neurobiology
Pre-dentistry
Pre-Exercise Physiology
Premedicine
Pre-optometry
*Prepharmacy**
Pre-Physical Therapy
Pre-Veterinary Medicine
Wildlife Biology

Chemistry and Biochemistry

Chemistry
 Biochemistry
Environmental Chemistry
Forensic Chemistry
Pre-dentistry
Premedicine
Prepharmacy

Computer Science

Computer Science**

Environmental and Plant Biology

Plant Biology
Cell Biology and Biotechnology
Environmental Biology
Field Biology

Geography

Geography
Cartography
Environmental Geography
Environmental Prelaw
Geographic Information Systems Analyst
Premeteorology
Urban and Regional Planning

Geological Sciences

Geological Sciences
Environmental Geology
Water Resources

Mathematics

Mathematics
Prep. for Actuarial Sciences
Prep. for Advanced Training
Applied Mathematics
Premeteorology

Physics

Physics
Prep. for Advanced Training
Applied Physics
Pre-astronomy
Premeteorology

- * These preprofessional programs do not fulfill any degree program but are intended as preparation for admission into a professional school or program.
- ** Computer science majors can choose to earn a B.A. or B.S. from the College of Arts and Sciences or a B.S.C.S. from the Russ College of Engineering and Technology.

Minors

If you wish to complete a formal minor in addition to your major, you may select a minor offered by the College of Arts and Sciences or one from another college. Minors available in the College of Arts and Sciences are:

African American Studies

Anthropology
 Astronomy
 Biological Sciences
 Chemistry
 Classical Civilization
 Computer Science
 Economics
 English
 French
 Geography
 Geological Sciences
 German
 Greek
 History
 Latin
 Linguistics
 Mathematics
 Microbiology
 Philosophy
 Physics
 Plant Biology
 Political Science
 Psychology
 Russian

Social Services

Sociology
 Spanish

Certificates

Certificates available in the College of Arts and Sciences can be a part of any major program offered by Ohio University. Further information is listed in the Majors, Minors, and Certificate Programs section that follows. Certificate programs are available in:

Environmental Studies

Gerontology
 in cooperation with the College of Health and Human Services

International Studies—African, Asian, or Latin American

Political Communication
 in cooperation with the College of Communication

Women's Studies

Certificate programs and minors are open to students in any program, regardless of college, except as restricted by that program or college. Awarding of a certificate or minor to non-Arts and Sciences students is by the approval of the dean of the student's college.

Admission Requirements

Upon being admitted to Ohio University as a first-year student, you may request direct entry into the College of Arts and Sciences by declaring any of the majors listed above or you may enter as an undecided major. However, you may not earn more than 90 hours in the undecided category before you declare a regular major.

Transfer from Other**Colleges Within Ohio University**

To transfer into the College of Arts and Sciences from another college within the university, you must declare a major in the College of Arts and Sciences and be in good standing academically with an accumulative g.p.a. no lower than 2.0. If you have earned 45 or more hours, you are not eligible to declare an undecided major in Arts and Sciences.

Courses taken to satisfy requirements in other colleges (e.g., MATH 120, HSS 378) will not necessarily fulfill requirements in the College of Arts and Sciences or in your new major.

As long as your g.p.a. is 2.0 or higher, you may apply to transfer to the College of Arts and Sciences at any time. However, the change will only take effect during the first two weeks of the quarter.

Transfer from Other Universities

Applicants to the College of Arts and Sciences from other accredited collegiate institutions must first meet Ohio University's transfer specifications as outlined under "Transfer Applicant" in the Admissions section of the catalog. As a transfer student to the College of Arts and Sciences, you must declare a major other than undecided.

The college determines the transferability of credit from other institutions based upon whether the institution is accredited or a recognized candidate for accreditation. The college follows the recommendations of the American Association of Collegiate Registrars and Admissions Officers in recognizing transfer credit. For credit earned at foreign institutions and other special cases, the college accepts the recommendations of the university examiner in the Office of Admissions.

The college evaluates credits on a course-by-course basis, assigning an Ohio University course number whenever possible so you can better determine how the courses fulfill graduation requirements.

Technical credits for nonbaccalaureate-level courses (e.g., diesel mechanics or office management) are evaluated as technical electives. Even though such credits do not meet any specific degree requirement, you are allowed up to 25 hours of technical electives to count toward total graduation hours. The benefits of technical coursework are debatable. If you are currently enrolled in a two-year program with the intention of transferring to Ohio University, it is important to take as much college-level work as possible in areas such as humanities, social sciences, mathematics, and science to improve your chances of completing the four-year degree program within two to three additional years.

Student records sent to the Office of Admissions from other collegiate institutions rarely include high school transcripts. Transferring students should order a high school transcript that includes final semester grades, to be sent directly to the Office of Student Affairs, College of Arts and Sciences so that the College of Arts and Sciences can determine your language placement.

In addition to fulfilling university residency requirements, you are required to complete at least 24 quarter hours of 2.0 work in your major at Ohio University, with a minimum of 12 of those hours at the 300 level or above. If you have a double major, you will need to complete at least 18 quarter hours of work in each major at Ohio University with a minimum of 9 hours at the 300 level or above in each of the two departments and maintain a 2.0 g.p.a. Courses should be approved by the respective departments.

To fulfill a minor in Arts and Sciences, you must complete a minimum of 8 hours of coursework at Ohio University at the 300–400 level with a grade of 2.0 or above.

College Requirements

If you are in Arts and Sciences you are encouraged to become familiar with this section of the catalog, which relates specifically to the College of Arts and Sciences, as well as to the Guidelines and General Information section at the front of the catalog. These pages contain information essential to your being a responsible and well informed student at Ohio University.

The following list outlines the Arts and Sciences degree information presented in the sections that follow:

Major Requirements

Double Major

Minor Requirements

General Education Requirement

Foreign Language Requirement

Humanities Area Requirement

Social Sciences Area Requirement

Natural Sciences Area Requirement

Level of Study Requirement

Single Application of Credit Credit, Noncredit, and Pass/Fail Credit Transient Study

Advising

Degree Requirements (B.A., B.S.)

Second Bachelor's Degree

Degree in Absentia

Teacher Certification

Study Abroad

Major Requirements

The specific requirements for each major, including the preprofessional programs and other special curricula in the College of Arts and Sciences, are listed in the following pages in the Majors, Minors and Certificates section.

If you are a first-year student in the College of Arts and Sciences, you may enroll in the college as an undecided major; however, you must declare a major once you have earned 90 hours. If you have earned 45 or more hours, you are ineligible to transfer into the college as an undecided major.

Requirements for the four non-Arts and Sciences major programs are determined by the respective colleges.

College policy requires that any major program consist of a minimum core of 36 quarter hours in one subject area, including 16 quarter hours to be taken at the 300–400 level. Most departments require more than 36 hours for the major, and there may be specific departmental requirements. Methods courses for certification in education are not included in hours that apply to the major. Whether you have chosen a traditional or a special curriculum major, you are obligated to fulfill the requirements specified by the department of major. At minimum, this must include at least 24 quarter hours of 2.0 work in the major from Ohio University, with a minimum of 12 of those hours at the 300 level or above. If you have a double major, you will need to complete at least 18 quarter hours of work in each major at Ohio University, including a minimum of 9 hours at the 300 level or above in each of the two departments while maintaining a 2.0 g.p.a. in each major.

B.A. degree candidates may count a maximum of 72 hours in one subject towards the degree; B.S. candidates may count a maximum of 80 hours. Exceeding this maximum requires adding equivalent hours to the total hours for graduation. Courses in the major that are numbered above 199 are applied to the 90-hours-above-200 requirement.

To earn a major in an Arts and Sciences discipline, you must be enrolled in the College of Arts and Sciences (except for economics majors, who may enroll in either the College of Arts and Sciences or the College of Business). If you are a student in another college at Ohio University, you may enroll concurrently or consecutively in Arts and Sciences.

Double Major

For a degree to be granted, you must complete at least one formal major. A second major (or more), an option that any Arts and Sciences student may pursue, requires that all requirements for each major as described in the Majors, Minors, and Certificate Programs section be fulfilled. No courses in any major except extradepartmental requirements (such as chemistry for a biological sciences major) may be applied to the area distribution requirements. If you complete more than one major program for the same degree, it will **not** increase the hours required for Arts and Sciences area requirements or the 192 hours to graduate.

Minor Requirements

Arts and Sciences students interested in completing a formal minor may choose from the 28 minors offered by the College of Arts and Sciences or select a minor from another college. You must declare the minor for it to be official and fulfill all hour and course requirements for it to be indicated as part of your Ohio University transcript. The minor will not show on the transcript until your degree is conferred.

University policy stipulates that a minor comprise 24 to 35 required hours, including at least two courses at the 300–400 level. In the case of foreign languages, the minimum requirement is 24 hours beyond the 213 level. English courses fulfilling Tier I composition requirements do not count toward an English minor. To fulfill a minor in Arts and Sciences, you must complete a minimum of 8 hours of coursework at Ohio University at the 300–400 level with a grade of 2.0 or above. Within these limits, the distribution of courses is determined by the department. In cases where extradepartmental courses required to fulfill your major either nearly or completely duplicate courses for your chosen minor, declaring a minor may not be acceptable. See the Majors, Minors, and Certificate Programs section for specific minor requirements.

General Education Requirement

The university General Education Requirements (Tiers I, II, and III) are similar to, but lesser in scale than, the Arts and Sciences requirements. You can select courses that, while fulfilling university General Education Requirements, can partially satisfy Arts and Sciences distribution requirements in foreign languages, humanities, social sciences, natural sciences, and courses above the 199 level. The following lists for humanities, social sciences, and natural sciences indicate specifically and without exception the courses accepted for Arts and Sciences credit. Many of these courses also satisfy Tier II requirements.

All courses that fulfill General Education Requirements also apply toward the 192 credit hours needed to graduate from Ohio University, even if they are not Arts and Sciences distribution courses.

Courses designated for Tier I quantitative skills and freshman composition (including any skills courses needed as prerequisites) apply only to hours for graduation and do not apply to Arts and Sciences distribution requirements.

Arts and Sciences courses that fulfill the Tier I advanced composition requirement at the junior level can apply to distribution areas and, in certain cases, to your major.

Courses designated for Tier III do not fulfill Arts and Sciences requirements except when they are taught by Arts and Sciences faculty and approved by the Arts and Sciences curriculum committee. Under this condition only will the course contribute to the hours-above-200-level requirement.

Transfer students who receive transfer credit for courses comparable to the composition and quantitative courses of Tier I are considered to have met the Tier I requirement. Transfer students without comparable transfer credit in composition and/or quantitative skills must complete the requirement.

Humanities Area Requirement*

The humanities requirement may be met by selecting 18 quarter hours from two or more areas, with at least 8 hours in one area, from the following:

- a** African American Studies 110, 150, 210, 211, 250, 310, 350, 352, 353, 355, 356
- b** Art History
- c** Classical Archaeology except 211, 212, 213
- d** Classics in English
- e** Comparative Arts
- f** Dance 170, 351, 352, 353, 370, 471, 472, 473
- g** English except 150, 151, 152, 153, 153A, 153B, 451, 452
- h** Foreign language courses other than those used to complete the foreign language requirement
- i** Humanities 107, 108, 109, 117, 307, 308, 309
- j** History 121, 122, 123, 314A–F, 328, 329A–C, 330, 331, 351, 352, 353A–B, 354, 356A–C, 357, 370, 389
- k** International Literatures in English–International Literature: Linguistics and International Literature: Modern Languages
- l** Interpersonal Communication 351, 352, 353
- m** Modern Languages 370J
- n** Music History and Literature
- o** Philosophy except 120
- p** Theater 270, 271, 272

Social Sciences Area Requirement*

The social sciences requirement may be met by a selection of 18 quarter hours from two or more areas, with at least 8 hours in one area, from the following:

- a African American Studies 101, 202, 220, 225, 340, 341, 360, 368, 440
- b Anthropology except 201, 492, 496
- c Business Law 255, 370, 442, and 475
- d Classical Archaeology 211, 212, 213
- e Economics
- f Geography except 101, 302, 303, 304, 315, 316, 406, 407, 411
- g History except those listed under humanities (see above)
- h International Studies 103, 113, 121
- i Linguistics
- j Political Science
- k Psychology except 120, 221, 226, 312, 314, 321
- l Social Work
- m Sociology

Natural Sciences Area Requirement*

The natural sciences requirement may be met by selecting 18 quarter hours from two or more areas, with at least 8 hours in one area, from the following:

- a Anthropology 201, 492, 496
- b Astronomy
- c Biological Sciences except 217
- d Chemistry except 115
- e Computer Science except 120, 135, 220
- f Environmental and Plant Biology except 217
- g Geography 101, 302, 303, 304, 315, 316, 406, 407, 411
- h Geological Sciences
- i Mathematics except 101, 102, 109, 113, 115, 117, 118, 120, 121, 122, 320
- j Microbiology
- k Physical Sciences
- l Psychology 221, 226, 312, 314
- m Physics

Note: Methods courses are not applicable to area requirements.

*These listings must be used as the official guide for the completion of the Arts and Sciences area (distribution) requirements. Exceptions to the 18-hour Arts and Sciences area distribution requirements will be made only under the most unusual of circumstances

and by petition only. Consideration for inclusion of courses not listed is not made on an *ad hoc* basis but requires formal approval of the Arts and Sciences Curriculum Committee.

Some courses from these categories may also be applied to the university Tier II requirements. However, the three Arts and Sciences area categories differ in scope from the five Tier II groupings (Humanities and Fine Arts, Natural Sciences and Mathematics, Applied Sciences and Technology, Social Sciences, and Third World Cultures). If you wish to select a course that will apply to both the Arts and Sciences and Tier II requirements, take care to choose a course that has been approved for the desired category in both the college and the university requirements. (The list of courses approved for each of the Tier II categories appears in the Graduation Requirements section of the catalog.) Courses that can fulfill Tier I quantitative skills and freshman composition requirements and the Tier III requirement do not apply to the Arts and Sciences area distribution requirements.

Foreign Language Requirement

The College of Arts and Sciences requires that all candidates for a B.A. or B.S. degree successfully complete two years of foreign language at the college level or the equivalent. However, the type of degree (B.A. or B.S.) determines how the two-year requirement is completed. These requirements are determined by the degree program and are not the student's choice.

Courses taught at Ohio University that will fulfill the language requirement are the African and Asian languages (Arabic, Chinese, Indonesian/Malaysian, Japanese, and Swahili), classical languages (Greek and Latin), Germanic language (German), Romance languages (French, Italian, and Spanish), and Slavic language (Russian). The first or beginning year of language at Ohio University is represented by the course numbers 111, 112, and 113, while the second or intermediate year is represented by the course numbers 211, 212, and 213.

Language Placement Table

The language placement table that follows represents the broadest interpretation of the language requirement and thus applies more specifically to the B.A. degree. If your major is designated B.S., use the table as a guide to determine if you qualify for the options

described in the Candidates for the B.S. Degree section that follows the table.

The language placement table represents two years of high school language as being equal to one year of college language. The study of a foreign language at Ohio University must begin according to the recommendations listed below. However, if you have completed two or more years of high school language, these recommendations assume there has been thorough foreign language preparation within the last year. If this is not the case, you are strongly advised to enroll first in a lower-level course as preparation to enter the intermediate level.* Enrolling at a level higher than indicated by the table is not permitted. Bypassing sequential courses is permitted only in accordance with the language placement table:

Years of language in high school	Begin college language at
0-1 year	Course 111
2-3 years	Course 211
4-5 years	Course 213 or 341 (Latin 351)

*If you find it necessary to repeat high school-level work (111-113) to prepare for the intermediate level, these credits will be applied to the 192-hour graduation requirement but will not fulfill any part of the language requirement. Once the language requirement is completed, any foreign language course that does not duplicate coursework for the requirement or high school work will be applied to the humanities distribution area.

Candidates for the B.A. Degree

The foreign language requirement for B.A. degree candidates is the successful completion of a two-year sequence of study of one language from level 111 through level 213.

Two years of high school language are considered the equivalent of one year of college language. According to your preference, however, your two years of college-level study may be a language other than the one studied in high school.

The B.A. student with:

Zero to one year of high school language must complete **two** years of **one** foreign language at the college level.

Two to three years of one language in high school must successfully complete the intermediate level (i.e., second year) 211–213, of the same language **or**, if you prefer, **two** years (111–213) of a language different from the one studied in high school.

Four or more years of one foreign language in high school must complete level 213 or 341 or any other higher level course in the **same** language.

Four years of Latin in high school may complete LAT 351 rather than LAT 213. LAT 351 is recommended.

Candidates for the B.S. Degree

If you are earning a B.S. degree, you may meet the foreign language requirement through two years of college language study or the equivalent. This policy allows for several interpretations.

The B.S. student with:

Zero to one year of high school language is allowed two choices—the completion of a full sequence of study in one language (two years, 111–213) or one year each of study at the beginning level in two different languages (two years, 111–113, 111–113).

Two to three years of high school language is allowed two choices—the completion of the intermediate level of the same language (211–213) or the completion of the beginning year of a second language (111–113).

Four or more years of high school language (i.e., four years of the same language or two years each of two different languages), may consider the language requirement met.

Candidates for Either Degree

For the limited number of major programs that offer both B.A. and B.S. degrees (see listings in the Majors, Minors, and Certificate Programs section), you may choose which degree to pursue. See the above section for the respective language requirements.

International Students

For international students whose first or native language is not English, the foreign language requirement may be satisfied by demonstrating competence in English. This must be approved by the director of the Ohio Program of Intensive English (OPIE), and generally requires the successful completion of at least one course in English as a foreign language. In some cases, the chair of the Department of Linguistics may certify that you have achieved an acceptable level of ability in a non-English language. You may also satisfy the foreign language requirement by taking a foreign language other than your own first language at Ohio University.

Enrollment in the beginning or intermediate level (under 300) of your own first language(s) will be considered a noncredit course.

Level of Study Requirement

(Hours at the 200 level or above)

Within the total hours applied to the degree, at least 90 quarter hours of Arts and Sciences courses must be above the freshman level (numbered above 199). Arts and Sciences courses are defined as courses listed earlier in this section under humanities, social sciences, and natural sciences, and include foreign languages, courses from the department major, and courses taught by faculty in the College of Arts and Sciences intended to meet the junior composition or Tier III requirement.

Economics majors may apply QBA 201 and, with departmental approval, other advanced courses in statistics to the Arts and Sciences 200-level requirement for for a maximum of 15 hours.

Non-Arts and Sciences courses are almost always considered electives and not counted toward the level of study requirement. Rather, they apply toward the 192-hour requirement for graduation.

Single Application of Credit

Excluding the exceptions listed below, no course may satisfy more than one of the area requirements in foreign language, humanities, social sciences, or the major requirement. For example, a philosophy major may not apply any courses in philosophy toward the humanities requirement. Neither courses that fulfill freshman General Education Tier I requirements nor Tier III classes will apply to the distribution area requirements. Exceptions are:

Courses required for a major, but outside the major department (extra-departmental requirements) will be counted toward the area requirements except in the case of interdisciplinary majors (i.e., international studies, classical studies) where required courses normally do not apply to the distribution areas.

Courses required for a minor will be counted toward the area requirements, except for non-Arts and Sciences minors. Courses at the beginning and intermediate levels of a foreign language for students majoring in that foreign language may fulfill the language requirement since the major is defined as including only language courses above the intermediate level.

Junior-level advanced composition courses offered by departments within the College of Arts and Sciences apply to the distribution area requirements except when they are required for the major.

Hours of Credit (CR), Noncredit and Pass/Fail Courses Allowed**Credit (CR) Hours**

Hours of coursework taken for CR that may be applied toward graduation are limited to 15 credit hours.

Noncredit Hours

Noncredit courses do not count toward the 192-hour requirement. (Noncredit courses are those numbered below 100; courses completed out of sequence, i.e., a lower-level course taken after completing an advanced course in the same department; certain technology courses; remedial courses such as ENG 150 and MATH 101; skills courses such as UC 110 and 112 in excess of the eight-hour limit; credits duplicated by the repetition of coursework; and courses taken for audit.) See the Guidelines and General Information section for details about credit and grading, repeated courses, and residence requirements that affect hours required.

Pass/Fail Hours

No course taken pass/fail may fulfill any graduation requirement except the total-hours requirement. For an Arts and Sciences student, this policy effectively restricts taking any pass/fail courses that fulfill your foreign language, humanities, social sciences, natural sciences, major, minor, 90-hours-above-200, and special curriculum requirements. Courses taken pass/fail are therefore limited strictly to electives or courses that fulfill hours to graduate only and may total no more than 20 hours.

See the Pass/Fail section in the Credit and Grading section of the catalog for further information.

Transient Study

Transient study credits are earned by taking a limited number of hours at another institution for the purpose of fulfilling specific Ohio University or College of Arts and Sciences requirements. (Transfer study, however, involves credits you transfer from another institution when you enroll for the purpose of completing an Ohio University degree.) See "Transferring Credit" in the Admissions section.

If you are a senior and wish to earn credit by transient study, remember that you must complete the final 16 hours at Ohio University if you have previously earned 96 or more hours in residence. If you have fewer than 96 hours earned here, you must complete a final residence requirement of 48 hours, and your major must include at

least 12 hours of 300–400 level work from Ohio University. Any minor must include 8 hours of courses at the 300–400 level from Ohio University.

Before registering for courses at another institution to earn credit by transient study, you must secure approval from the dean. A visit to the Office of Student Affairs is essential to determine beforehand the value of the intended coursework and prevent any loss of credit in the transfer process. You may need a catalog and/or course description in order to complete the petition/approval form.

Advising

All departments in the College of Arts and Sciences have an undergraduate advising coordinator who, with the help of other faculty in the department, ensures that every student is assigned an advisor for academic counselling. It is not the advisor's responsibility, however, to dictate the quarter's schedule or to guarantee that program requirements are being met—these are your responsibilities.

Every student in the College of Arts and Sciences is assigned an advisor. For students with declared majors, the advisor is a faculty member in the department of the major. For undecided majors, an advisor is assigned from arts and sciences faculty and administrative staff. It is expected that you will consult the department of your major to schedule a conference during the advising period before preregistration each quarter.

While advisor conferences are particularly encouraged during preregistration, it is recommended that you maintain regular contact for assistance with concerns related to academic and career planning. Any arrangements deviating from the major requirements must be communicated in writing by the department chair or the undergraduate advising chair to the dean's office. While an advisor may assist with scheduling, it is ultimately your responsibility to see that program requirements are met.

To change majors, contact the Office of Student Affairs. An advisor will be assigned or instructions given regarding a new advisor. All other matters pertaining to advisors are administered by the departmental offices.

Degree Requirements for Bachelor of Arts (B.A.) and Bachelor of Science (B.S.)

General requirements for a B.A. or B.S. are (a) a minimum of 192 quarter hours, including (b) 90 hours of Arts and Sciences coursework above the 199 level; (c) the equivalent of two years of college-level foreign language; (d) at least 18 hours each of humanities, social sciences and natural sciences; (e) General Education Requirements—Tiers I, II, III—and (f) all requirements stipulated by the department for the chosen major. Minors are optional.

A minimum of 192 quarter hours of credit is required for either a B.A. or B.S. However, you may acquire no more than 72 hours in any one subject for a B.A. and no more than 80 hours in one subject for a B.S. Any hours accumulated beyond the maximum allowed for the major area will necessitate an equivalent increase in the number of total hours required to graduate from Ohio University.

To receive a degree from the College of Arts and Sciences, you must have a minimum 2.0 g.p.a. on all of the following:

- 1 all hours attempted at the college level
- 2 all hours attempted at the college level in the major
- 3 all hours attempted at Ohio University
- 4 all hours attempted at Ohio University in the major.

The graduation g.p.a. is computed after deductions for repeated and noncredit courses have been made. See the Credit and Grading section for information on repeated course removal.

Graduation requirements are defined by your catalog of entry and remain in effect for five years from your date of admission to Ohio University. An average course load of 16 hours a quarter is necessary to graduate in four years. Five years after entry, graduation requirements become redefined by the current catalog.

For specific information involving graduation requirements, including residence requirements (i.e., the minimum number of credit hours that you must complete at Ohio University), see the Graduation Requirements section.

Second Bachelor's Degree

The College of Arts and Sciences awards a B.A. or B.S. only once to a student who completes more than one major within the degree program (e.g., sociology and African American Studies). It is possible, however, to earn both a B.A. and a B.S. (e.g., Spanish and microbiology) or to earn degrees from separate degree-granting colleges (e.g., College of Arts and Sciences and College of Health and Human Services).

University policy requires the completion of a **minimum of 208 quarter hours for the second degree** (i.e., an additional 16 hours beyond the 192 required for the first degree), including all specific requirements for both degree programs. For the guidelines to earning a second bachelor's degree, refer to the Graduation Requirements section.

Degree *in Absentia*

To be eligible for *in absentia* privileges, you must first be enrolled in one of the programs listed in item 5 below. To earn a degree *in absentia*, you must have:

- 1 completed 144 quarter hours at Ohio University, including specific requirements for the chosen program
- 2 earned a g.p.a. of 2.0 or better on all work attempted and on all work in the major
- 3 completed all General Education Requirements
- 4 completed all college distribution area requirements, except the 200-level requirement, of which 45 hours must be complete

- 5 completed a full year's work in an accredited school of dentistry, law, clinical laboratory science, medicine, optometry, physical therapy, or veterinary medicine
- 6 been advanced without condition to the second year of training when the professional school's program is for two or more years
- 7 successfully completed the professional program specified.

For the clinical laboratory science program, you must receive the approval of the clinical laboratory science advisor. For any other *in absentia* programs, you must secure a statement from the dean of the college before you enter the professional school granting the degree *in absentia* privilege.

Teacher Licensure

Students in the College of Arts and Sciences may meet the requirements for licensure to teach at the secondary-school level by completing requirements for either the B.A. or the B.S. degree program and completing necessary requirements through the College of Education. Information about requirements is available from the College of Education Student Services office and department representatives in the College of Arts and Sciences. If you are interested in teaching, begin planning for your required courses as early as possible.

Ohio Validation for TESL

An endorsement to teach English as a second language in Ohio public schools (K–12) is offered by the Department of Linguistics. Certification in another field is a prerequisite. A minimum of 27 credit hours in upper level linguistics and education courses are required for endorsement. If you are interested in this option, contact the Department of Linguistics for specific requirements. The program is available only during the Summer Session in even-numbered years.

Study Abroad

Among the many study-abroad opportunities offered by Ohio University are the programs coordinated by the College of Arts and Sciences. For information about these and other programs, contact the Office of Education Abroad, Gordy Hall 107. If you receive financial aid, plan to meet with your financial aid advisor at least one full quarter before you intend to study abroad.

Language Programs

Intensive French Abroad, Tours, France, spring quarter; Intensive German Abroad, Salzburg, Austria, spring quarter; Intensive Spanish Abroad, Merida, Mexico, winter quarter; Greek in Greece, on-site program in Greece and Turkey, spring quarter; Japanese Culture and Language Abroad, Chubu University, Nagoya, Japan, fall quarter; Russian Study Abroad, Moscow, Russia, spring quarter; Spanish Study Abroad, Universidad Pública de Navarra (UPNA), Pamplona, Spain, fall, winter and/or spring quarters (1, 2, or 3 quarters).

Student Exchange Programs

Odense University Exchange Program, Odense, Denmark, fall quarter or one academic year; Johannes Gutenberg University Exchange Program, Mainz, Germany, one academic year; University of New Castle, New Castle, Australia, one semester or one academic year; University of Wales Exchange Program, Swansea, Great Britain, one academic year.

Other Arts and Sciences Programs

The Archeology of Ancient Rome Program, Italy, three weeks during winter intercession; Latin American Study Abroad Program, Cuenca, Ecuador, spring quarter; London Summer Study Program, England, three weeks; Wilhelmshaven Summer Study Program, Germany, five weeks (annual or every other year, depending on demand.)

Majors, Minors , and Certificate Programs

This section outlines the specific requirements for every program in the College of Arts and Sciences: traditional majors, special curricula, minors, and certificate programs, so that you can investigate the full range of majors and degree options available in the college.

Special curricula are four-year degree programs structured to help you prepare for a specific application of your undergraduate program to a selected educational or career objective. To be recognized as having completed a special curriculum and to meet graduation requirements, you must complete the entire curriculum as listed, plus additional courses as necessary to reach a total of 192 hours and meet both university General Education Requirements and the Arts and Sciences degree requirements. Should you elect not to fulfill the special curriculum, you must complete all requirements for another major to graduate.

Majors are arranged alphabetically by department and are listed by complete name (e.g., Forensic Chemistry).

African American Studies

African American Studies Major (B.A.) Major code BA4903

Students completing the major program receive a Bachelor of Arts degree with a major in African American studies. Courses include communications, education, political science, psychology, social sciences, art, literature, and music as they reflect and provide insight into the African American experience.

The minimum grade-point average for graduation is a 2.0 (C) in all courses attempted. A grade of C is also required in each major course.

Advising is an essential element in the African American Studies Program. Each student works closely with a faculty member whose expertise and interests are related to the student's academic pursuits.

The requirements for a major consist of 56 quarter hours, including

AAS 101	African Amer. History I	4
or AAS 202	African Amer. History II	4
AAS 106	Intro to Afr. Amer. Studies	4
One course from		
AAS 110	Intro to African Amer. Lit.	4
AAS 150	Intro to Black Media	5
AAS 180	Intro to Afr. Amer. Educ.	4

Within the 56 hours, at least 28 must be in one of two focal areas—either social sciences or arts and humanities. The focal area must include at least one course from four of the groups below and at least 16 hours at or above the 300 level.

Social Sciences Groups

History

AAS 225	Hist. of the Black Worker	4
AAS 235	Comp. Neocolonialism	4
AAS 254	History of Injustice in U.S.	5
AAS 340	The Black Community in Post-WWII	4
AAS 364	Comp. Study of Injustice	4

Sociology/Psychology

AAS 341	African Amer. Personality	4
AAS 345	The Black Woman	4
AAS 430	Social Theories of Underdevelopment	4
AAS 440	The Black Child	5
AAS 482	The Black Family	4

Political Science

AAS 360	Black Politics in U.S.	4
AAS 368	Black Political Thought	4
AAS 370	Urban Violence	4
AAS 430	Social Theories of Underdevelopment	4

Economics

AAS 432	Third World Natl. Mvts.	4
AAS 460	Social Processes: Third World Urbanization	4

Education

AAS 380	Seminar in African American Education	4
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Arts and Humanities Groups**Literature (African American)**

AAS 210	African Amer. Lit. I	4
AAS 211	African Amer. Lit. II	4
AAS 310	Contemporary African American Literature	4
AAS 311	African American Lit.: Special topics	4
AAS 411	Literature Seminar	4

Literature (Intercultural)

AAS 315	Literature of West Africa	4
AAS 316	Literature of South Africa	4
AAS 317	Caribbean Literature	4

Arts

AAS 250	Found. of African Amer. Arts and Culture	4
AAS 350	African American Arts and Artists	4

Music

AAS 355	History of African Amer. Music I: Slavery to 1926	4
AAS 356	History of African American Music II: 1926–Present	4
AAS 357	Black Music Seminar I	3

Media

AAS 352	Blacks in Contemporary Cinema	4
AAS 353	Survey of Black Independent Cinema	4

African American Studies Minor**Minor code OR4903**

The minor in African American Studies is available to all undergraduate students regardless of major. The requirements consist of a minimum of 28 hours of coursework in one of two options: the minor concentration or the interdisciplinary minor. The minor concentration in either the social sciences or the arts and humanities consists of a minimum of 28 hours, including at least 20 hours in the chosen area, AAS 101 African American History I or AAS 202 African American History II, and AAS 106 Introduction to African American Studies.

The interdisciplinary concentration requires at least one course from each of the two focal areas, at least two additional courses at the junior or senior level, AAS 101 African American History I or AAS 202 African American History II, and AAS 106 Introduction to African American Studies.

African Studies

See International Studies.

Anthropology**Anthropology Major (B.A.)****Major code BA4252**

Anthropology may be defined broadly as the scientific study of humankind. This discipline has two major foci: humans as biological organisms and as cultural beings. Anthropology has three subfields: biological anthropology, cultural anthropology, and archaeology. Anthropology is a holistic, comparative, and functional discipline that provides a broad framework through which human activities, adaptations, and changes may be meaningfully interpreted in time and in space. Much of anthropology deals with non-Western cultures.

If you are interested in becoming a professional anthropologist, you can prepare for graduate school in the Department of Sociology and Anthropology. The anthropology major offers training in the methods and results of cultural anthropology, biological anthropology, and anthropological archaeology.

Major requirements for the B.A. in anthropology include

ANTH 101	Intro to Cultural Anth.	5
ANTH 201	Intro to Biological Anth.	5
ANTH 202	Intro to Anthropological Archaeology	5

4 hours of cultural anthropology selected from

ANTH 345	Gender in Cross-Cultural Perspective	4
ANTH 348	Education: Cross-Cultural Perspectives	4
ANTH 350	Economic Anthropology	4
ANTH 351	Political Anthropology	4
ANTH 355	Medical Anthropology	4
ANTH 357	Anthropology of Religion	4
ANTH 366	Cultures of the Americas	4
ANTH 371	Ethnology	4
ANTH 372	Cultures of the World	4
ANTH 373*	Perspectives in Anthropology	4
ANTH 375	Culture and Personality	4
ANTH 376	Culture Contact and Change	4
ANTH 377	Peasant Communities	4
ANTH 378	Human Ecology	4
ANTH 381	Cultures of Sub-Saharan Africa	4
ANTH 383	Cultures of Latin America	4
ANTH 385	Cultures of Southeast Asia	4
ANTH 386	Problems in Southeast Asian Anthropology	4
ANTH 387	Pacific Island Cultures	4
ANTH 460	Kinship	4
ANTH 472	History of Anthropological Thought	4
ANTH 494A	Seminar in Cultural Anthropology	4
ANTH 494D*	Seminar in Human Ecology	4

4 hours of biological anthropology selected from

ANTH 391	Primate Social Org.	4
ANTH 492	Human Evolution	4
ANTH 494B	Seminar in Biological Anthropology	4
ANTH 496	Human Diversity	4
ANTH 373*	Perspectives in Anth.	4
ANTH 494D*	Seminar in Human Ecology	4

4 hours of archaeological anthropology from

ANTH 361	North American Prehistory	4
ANTH 363	Gender in Prehistory	4
ANTH 364	Near East Prehistory	4
ANTH 367	South American Prehistory	4
ANTH 370	Mexican/Central American Prehistory	4
ANTH 452	Anthropological Archeology	4
ANTH 494C	Seminar in Archeological Anthropology	4
ANTH 373*	Perspectives in Anth.	4
ANTH 455*	Seminar in Methodology and Field Research	4
ANTH 465	Field School in Ohio Archeology	5-10
ANTH 494D*	Seminar in Human Ecology	4

28 additional hours in anthropology, of which 8 hours must be at the 400 level divided between two of the three main areas above

* when topic is appropriate

You are required to select an advisor from the anthropology faculty; your advisor will help you design an individualized course of study. As your interest shifts, you may change advisors. Nonanthropology courses can be declared as anthropology credit toward the major with your advisor's permission; for example, an interest in ethnoenvironmental and plant biology may lead to environmental and plant biology courses counting as part of an anthropology major. At least 43 hours must be in departmental anthropology courses. You are encouraged to take courses in fields related to anthropology. Courses in environmental and plant biology, biological sciences, geology, geography, history, linguistics, international studies, mathematics, psychology, and sociology may be recommended for students interested in particular specialties.

Anthropology Minor **Minor Code OR4252**

A minor in anthropology is available if you wish to add a dimension of non-Western cultures to your education. Requirements for a minor in anthropology are

ANTH 101	Intro to Cultural Anth.	5
ANTH 201 or ANTH 202	Intro to Biological Anth. Intro to Anthropological Archaeology	5

(Both ANTH 201 and 202 are recommended.)

and 16 additional hours in anthropology (including 4 hours at 400 level and 4 additional hours at the 300 or 400 level)

Art

See School of Art in the College of Fine Arts section for information about selective admission requirements. To earn the B.A. degree in art from the College of Arts and Sciences requires special permission. Inquire at the College of Arts and Sciences Student Affairs Office.

Asian Studies

See International Studies.

Astronomy

See Physics and Astronomy.

Bacteriology

See Biological Sciences—Microbiology.

Behavior

See Biological Sciences or Psychology.

Biological Sciences

Biological Sciences Major (B.S.) **Major code BS2121**

Unless otherwise indicated, BIOS/MICR departmental courses may be retaken only once.

Requirements for the B.S. in biological sciences are

A minimum of 50 quarter hours in approved departmental courses which must include the following:

BIOS 170, 171, 172, 173*	Intro to Zoology	14
BIOS 325	General Genetics	5
BIOS 342, 343	Principles of Physiology I, II	6
BIOS 354, 355	Principles of Physiology Lab I, II	4

One course from each of the following areas:

Anatomy/Organismal

BIOS 300	Anatomy and Histology	6
BIOS 301	Human Anatomy	6
BIOS 303	Comp. Vert. Anatomy	6
BIOS 430	Invertebrate Biology	6
BIOS 435	Entomology	6

Ecology/Evolution

BIOS 275	Animal Ecology	4
BIOS 479	Evolution	4
BIOS 481	Animal Cons. Biology	4

Biochemistry

BIOS 463	Cell Chemistry	4
CHEM 490, 491†	General Biochemistry I, II	7

Other biological sciences

PBIO 111	Intro to Plant Biology	6
MICR 311	General Microbiology	5

Required extradepartmental courses

CHEM 151, 152, 153	Fund. of Chemistry	15
CHEM 301, 302	Organic Chemistry	6
or CHEM 305, 306, 307	Organic Chemistry	9
MATH 263A,B	Calculus	8
PHYS 201, 202, 203	Intro to Physics	15
or PHYS 251, 252, 253	General Physics	15
PSY 221	Stat. for the Beh. Sciences	5
or MATH 250, 251	Intro to Prob. and Stat.	8

*See listing in Courses of Instruction section for prerequisites.

†Prereq: CHEM 305–307.

Biological Sciences Minor
Minor code OR2121

Requirements for the minor in biological sciences consist of a minimum of 28 credit hours, including

BIOS 170, 171, 172, 173*	Intro to Zoology	14
BIOS 325	General Genetics	5

and at least two other courses at the 300 level or above

*See listing in Courses of Instruction section for prerequisites.

Biological Sciences—**Clinical Laboratory Science Major (B.S.)****Special curriculum; major code BS2123**

This program prepares students for work in hospital laboratories, public health bureaus, and other laboratories concerned with medical diagnosis and investigation. It leads to a Bachelor of Science in biological sciences and certification by the American Society of Clinical Pathologists or another certifying body.

The Ohio University–hospital school of clinical laboratory science affiliation for training of clinical laboratory scientists fulfills the requirements established by the A.M.A. and A.S.C.P. and affords you an opportunity to earn a bachelor's degree.

After completing (1) a minimum of 144 quarter hours with at least a 2.0 g.p.a. in the major and in all hours attempted and (2) general education and all area requirements for the baccalaureate degree, you are eligible to apply for admission to one of several affiliated hospital schools for the clinical program. Upon satisfactory completion of the 12-month clinical program, you will receive the Bachelor of Science degree from Ohio University.

Approval may be granted for completion of the clinical program at hospitals other than those affiliated with Ohio University if the hospital has a C.A.H.E.A.—approved program in clinical laboratory science and if, because of location or other factors, it would better meet your needs. You are required to present a copy of the hospital's program of study to the Department of Biological Sciences for evaluation.

Consult your advisor frequently during the preclinical period. Early in the fall quarter preceding the clinical program, obtain specific information about applying to an affiliated school of medical technology from the clinical laboratory science advisor.

During the 12-month clinical program, you register with and pay fees to Ohio University. A special fee schedule applies to these four quarters, and both fourth- and fifth-year students are required to register. Ohio University then pays the total tuition to the hospital-based school of medical technology.

If you transfer from another program or institution (including regional campuses of Ohio University), you cannot normally expect to complete the preclinical requirements in three years unless the need to make up courses is minimal.

If you remain at the Athens campus for your fourth or senior year, you can graduate with a B.S. in biological sciences/clinical laboratory science by fulfilling the requirements for the freshman, sophomore, and junior years listed below plus earning a total of 90 hours at the 200 level or above and completing a total of 192 credit hours. You may then enter a hospital internship program to qualify for the A.S.C.P. certification exam. If you graduate with a B.S. in microbiology, you are also qualified to apply for admission to a clinical internship.

Unless otherwise indicated, BIOS/MICR departmental courses may be retaken only once.

Freshman

CHEM 151, 152, 153	Fund. of Chemistry	15
	English Composition	5
MATH 113	Algebra	5
or MATH 163A*	Intro to Calculus	4
BIOS 170, 171, 172, 173†	Intro to Zoology	14

Arts and Sciences degree requirements, university General Education Requirements, and/or electives.

*Recommended

†See listing in Courses of Instruction section for prerequisites.

Sophomore

CHEM 241, 242	Quantitative Analysis	5
CHEM 301, 302	Organic (short)	6
CHEM 325	Instr. Methods of Analysis	4
BIOS 300	Elements of Anatomy and Histology	6
BIOS 325	Gen. Genetics	5
BIOS 345	Human Physiology	4

Arts and Sciences degree requirements, university General Education Requirements, and/or electives.

Junior

MICR 311	Gen. Microbiology	5
MICR 415	Immunology	5
BIOS 463	Cell Chemistry	4
BIOS 364	Human Physiology Lab	3
or MICR 412	Microbiological Techniques	5
or BIOS 326/MICR 326	Laboratory Genetics	4
	English Composition	4

Arts and Sciences degree requirements, university General Education Requirements, and/or electives.

Senior (Clinical Program)

Four quarters of coursework constituting the clinical portion of the program are taken at a hospital-based school of medical technology. Register each quarter for these courses, entitled Clinical Laboratory Science Internship 470A, B, C, and D.

A typical program includes:

Bacteriology and Serology	18
Clinical Chemistry	23
Hematology	10
Immunohematology	5
Parasitology	3
Radioisotopes	1
Urinalysis	4

Biological Sciences—Environmental Biology Major (B.S.)
Special curriculum; major code BS2509

This specialized curriculum will provide the necessary course background for students preparing for graduate school or lower-level careers in fields of environmental and conservation biology. Courses meet the requirements for admission to graduate programs in biology, zoology, ecology, and conservation biology. The program also provides the necessary background for jobs with state and federal agencies (e.g., USDA or EPA) charged with environmental protection, research and monitoring, and information. Certification in first aid, CPR, and watercraft safety enhances the ability of students to become employed in the field or earn internships. Because the environmental field has become increasingly international in both activities and jobs and because the Peace Corps needs volunteers with an environmental biology education, a speaking knowledge of Spanish or French is strongly recommended. The requirements of the biological sciences major are also met with this specialized curricular program.

See also the environmental degree programs listed under the Departments of Chemistry and Biochemistry, Environmental and Plant Biology, Geography, and Geology.

Unless otherwise indicated, BIOS/MICR departmental courses may be retaken only once.

Freshman-Sophomore

ENG 151	Fr. Comp.: Writing and Rhetoric	5
Foreign language requirement (typically)		12
CHEM 151, 152, 153	Fund. of Chemistry	15
BIOS 170, 171, 172, 173*	Intro to Zoology	14
MATH 163A, 163B**	Intro to Calculus	7
or MATH 263A, B	Calculus	8
PSY 221	Statistics	5
BIOS 275	Animal Ecology	4
BIOS 325	Genetics	5
PBIO 111	Introduction to Environ. and Plant Biology	6
INCO 103	Fund. of Public Speaking	4

Also Tier II General Education and Arts and Sciences humanities and social sciences requirements, and other electives.

*See listing in Courses of Instruction section for prerequisites.

**MATH 263A, B is preferred.

Junior-Senior

ENG	Junior Level English Composition	4
CHEM 301, 302, 303, 304	Organic Chemistry, Lab	11
PHYS 201, 202, 203	Intro to Physics	15
or PHYS 251, 252, 253	General Physics	15
MICR 311	General Microbiology	5
BIOS 342, 343	Principles of Physiology	6
BIOS 463	Cell Chemistry	4
or CHEM 489	Biochemistry	
BIOS 303	Comp. Vert. Anatomy	6
or BIOS 430	Invertebrate Zoology	6
or BIOS 435	Entomology	6
Tier III Senior Level Synthesis Course		4

Four additional elective courses: minimally one geology course, one philosophy course and two geography courses. Courses from field stations or other nonbiology courses may be substituted with permission of the program advisor. More biology courses may be taken but are not necessary to fulfill B.S. in biology requirements.

Choose social science elective courses to meet the requirements of the Environmental Studies Certificate Program. (See Environmental Studies Certificate listing in this section.)

Biological Sciences—Marine Biology Major (B.S.)
Special curriculum; major code BS2514

The Department of Biological Sciences provides a program for undergraduate majors who are interested in marine biology. Since this is an increasingly international field, you are encouraged to gain the speaking knowledge of a language other than English (preferably Spanish or French) and to consider the possibility of working for two years in the Peace Corps following graduation. Graduates will meet state and federal civil service course requirements for registry as fisheries biologist, ecologist, and general biologist. This program will also prepare you for graduate studies in biological sciences, ecology, or marine or freshwater biology. Training in SCUBA, CPR, first aid, lifeguarding, and watercraft safety will enhance students' chances of earning summer jobs and internships and are available as College of Health and Human Services courses. Since the program includes at least 50 hours in approved BIOS/MICR courses, you will meet the requirements of the biological sciences major. You may want to use elective credits to obtain an Environmental Studies Certificate.

Unless otherwise indicated, BIOS/MICR departmental courses may be retaken only once.

Freshman-Sophomore

ENG 151	Fr. Comp.: Writing and Rhetoric	5
Foreign language requirement (typically)		12
CHEM 151, 152, 153	Fund. of Chemistry	15
BIOS 170, 171, 172, 173*	Intro to Zoology	14
MATH 163A, B**	Intro to Calculus	7
or MATH 263A, B	Calculus	8
PHYS 201, 202, 203	Intro to Physics	15
or PHYS 251, 252, 253	General Physics	15
GEOL 211	Oceanography	4
PSY 221	Statistics	5
BIOS 275	Animal Ecology	4

BUSL 370; ECON 313, 314; GEOG 241, 351, 440, 447; SOC 340; POLS 490D (these courses can be used to fulfill the social science requirements for the Environmental Studies Certificate.)

Tier II requirements, humanities and social sciences requirements, or electives.

*See listing in Courses of Instruction section for prerequisites.

**MATH 263A, B is preferred.

Junior-Senior

Junior Level	English Composition	4
CHEM 301, 302	Organic Chemistry	6
BIOS 325	Genetics	5
MICR 311	General Microbiology	5
BIOS 429	Marine Biology	5
BIOS 430	Invertebrate Biology	6
BIOS 342, 343	Prin. Physiology	6
Tier III Senior Level Synthesis Course		4

Tier II requirements, humanities and social sciences requirements, or electives.

Plus five courses from the following list of electives, two of which must be BIOS:

CHEM 330	Intro to Toxicology	4
GEOG 302	Meteorology	5
GEOL 221	Earth and Life History	4
GEOL 231	Water and Pollution	4
BIOS 303	Comp. Vertebrate Anatomy	6
BIOS 431	Limnology	5
BIOS 457	Animal Systematics	4
BIOS 462	Animal Physiological Ecol.	4
BIOS 463*	Cell Chemistry	4
BIOS 468	Ichthyology	4
BIOS 471	Ornithology	6
BIOS 473	Animal Behavior	5
BIOS 474	Mammalogy	6
BIOS 477	Population Ecology	4
BIOS 478	Community Ecology	4
BIOS 479	Evolution	4
BIOS 481	Animal Cons. Biol.	4
MICR 375	Microbial Ecology	3

Courses from summer field stations or other appropriate courses may be substituted with prior permission of the program advisor.

*CHEM 489 may be substituted.

Biological Sciences—Microbiology Major (B.S.) **Major code BS0411**

A major in microbiology provides the necessary background to pursue a successful career in research and development, quality control management, water quality control, or clinical laboratory science, or graduate studies in medicine, dentistry, optometry, public health, microbiology, or molecular biology.

Unless otherwise indicated, BIOS/MICR departmental courses may be retaken only once.

Major requirements for the B.S. in microbiology are

Freshman-Sophomore

ENG 151	Composition	5
BIOS 170, 171, 172, 173*	Introduction to Zoology	14
MATH 163A, 163B or MATH 263A, 263B**	Intro to Calculus Calculus	7 8
CHEM 151, 152, 153	Fund. of Chemistry	15
PHYS 201, 202, 203	Intro to Physics	15
MICR 325	General Genetics	5
CHEM 305, 306, 307	Organic Chemistry	9
MICR 311	General Microbiology	5

Tier II requirements, Arts and Sciences humanities and social science requirements.

Junior-Senior

	Junior Composition	4
MICR 415	Immunology	5
MICR 419	Microbial Physiology	5
CHEM 241, 242	Quantitative Analysis	5
CHEM 490, 491	General Biochemistry I, II	7

At least 16 hours, including 2 lab courses (MICR 326, 412, 413B, 414B, 441B), from:

MICR 326	Laboratory Genetics	4
MICR 375	Microbial Ecology	3
MICR 412	Microbial Techniques	5
MICR 413A, 413B	Pathogenic Bacteriology	5
MICR 414A, 414B	Virology	5
MICR 418	Epidemiology	4
MICR 425	Molecular Genetics	3
MICR 427	Mech. Gene Regulation	3
MICR 441A, 441B	Parasitology	6
MICR 444	Tropical Disease Biology	4

Tier II and III requirements; Arts and sciences humanities, social sciences, and foreign language requirements.

Microbiology majors wishing to apply to a professional school of medicine, dentistry, physical therapy, or veterinary medicine should make an appointment with the Preprofessional Health Careers Office, Irvine Hall 111, for applications and advice on recommended BIOS courses.

*See listing in Courses of Instruction section for prerequisites.

**Preferred

Microbiology Minor **Minor code OR0411**

Unless otherwise indicated, BIOS/MICR departmental courses may be retaken only once.

A minor in microbiology requires a minimum of 24 hours of microbiology courses excluding MICR 211, 212 and including MICR 311 and at least one of the following:

MICR 412	Microbial Techniques	5
MICR 415	Immunology	5
MICR 413A, and 413B	Pathogenic Bacteriology	5
MICR 414A, and 414B	Virology	5
MICR 419	Microbial Physiology	5

MICR courses used to fulfill requirements for a biological sciences major cannot be counted toward the 24 hours.

Biological Sciences—Neurobiology Major (B.S.) **Special curriculum; major code BS2125**

Neuroscience is a rapidly growing field in both academia and industry. The neuroscience program is appropriate for students interested in graduate study in neuroscience; neuroscience research in combination with a career in medicine, pharmacology, or dentistry; or neuroscience technical positions in academia, medicine, or industry.

The program has both a research-oriented option (BIOS 494H/495H) and a standard course-oriented option. Students are strongly encouraged, however, to pursue the research option since neuroscience careers almost exclusively involve

research. To pursue the research option, you must have 30 hours and a g.p.a. of at least 3.2 in BIOS courses. The program provides, on a competitive basis, stipends and support for undergraduate research during the summer of the third year, and research-option students take a lighter course load in the senior year to free additional time for the research project. The program is demanding and requires careful planning, particularly of Tier II and Arts and Sciences area requirements.

The specialized portion of the curriculum does not begin in earnest until the end of the third year, so well qualified students can join relatively late in their undergraduate studies. A generally appropriate curriculum is outlined below, but you should contact the program advisor for detailed course selection advice.

Freshman

CHEM 151-153	Fund. of Chemistry	15
MATH 263A, B	Calculus	8
PSY 221	Statistics for the Beh. Sci.	5
BIOS 170-173*	Intro to Zoology	14
	Freshman Composition	

Arts and Sciences degree requirements, university General Education requirements, and/or electives; foreign language if necessary.

Sophomore

PHYS 201-203	Intro to Physics	15
CHEM 301, 302	Organic (short)	6
or CHEM 305, 306, 307	Organic (long)	9
CHEM 303, 304	Organic Chemistry Lab	5
BIOS 325	General Genetics	5
BIOS 333	Neural Basis of Behavior	3
One anatomy/organismal course (BIOS 300, 301, 303, 430, or 435)		6

Arts and Sciences degree requirements, university General Education requirements, and/or electives; foreign language if necessary.

Junior

BIOS 342, 343	Prin. of Physiology	6
BIOS 354, 355	Prin. of Physiology Lab	4
BIOS 463	Cell Chemistry	4
or CHEM 490, 491**	General Biochemistry I, II	7
BIOS 412	Molecular and Cellular Neurobiology	4
Ecology/evolution course (BIOS 275, 479, or 481)		4
Additional related course (MICR 311 or PBIO 111)		5-6

Arts and Sciences degree requirements, university General Education requirements, and/or electives; foreign language if necessary.

Senior (research option)

BIOS 409	Neuronal Systems	4
Advanced neuroscience course (BIOS 410, 411, 466, or 467) 2-4		
Advanced related course (BIOS 406, 407, 420, or 473; PBIO 450; or PSY 312 or 430)		4-6
BIOS 494H	Undergraduate Research (two quarters)	8
BIOS 495H	Undergraduate Research Thesis	3-9

Arts and Sciences degree requirements, university General Education requirements, and/or electives; foreign language if necessary.

Senior (course option)

BIOS 409	Neuronal Systems	4
Two advanced neuroscience courses (BIOS 410, 411, 466, or 467)		6-8
Two advanced related courses (BIOS 406, 407, 420, or 473; PBIO 450; or PSY 312 or 430)		8-12

Arts and Sciences degree requirements, university General Education requirements, and/or electives; foreign language if necessary.

*See listing in Courses of Instruction section for prerequisites.

**Prereq: CHEM 305-307.

Biological Sciences—Pre dentistry Major (B.S.) Special curriculum; major code BS2501

No specific area for the major is required by dental colleges or by Ohio University. You must present preparation in various basic sciences, and many students complete a major in one science or a dual major in two sciences. Many dental schools require at least a year of behavioral and social sciences as well as a year of English. You can fulfill these requirements by following either the biological sciences or chemistry pre dentistry major.

Most dental schools select students with a bachelor's degree; a very limited number of applicants who have completed three years and have met the degree *in absentia* privilege requirements are admitted.

All dental school applicants are required to take the Dental Aptitude Test (DAT), offered in the spring and fall. The latest that the DAT may be taken is in the fall of the year before entering dental school. If possible, it is better to take the DAT the previous spring.

Except for the lack of an organic chemistry laboratory, the microbiology major satisfies the requirements of most dental schools.

If you elect the degree *in absentia* option, you must complete a minimum of 43 hours in BIOS/MICR; for the four-year program, you must complete a minimum of 50 hours in BIOS/MICR. In addition, you must meet the requirements for the biological sciences major.

The following sequence of courses is required for pre dentistry students majoring in biological sciences.

Unless otherwise indicated, BIOS/MICR departmental courses may be retaken only once.

Freshman

CHEM 151, 152, 153	Fund. of Chemistry	15
	English Composition	5
MATH 163A, B	Intro to Calculus	7
or MATH 263A, B	Calculus	8
BIOS 170, 171, 172, 173*	Intro to Zoology	14
CLA5 227	Gk. and Lat. Roots in Biomedical Terms	4

Arts and Sciences degree requirements, university General Education Requirements, and/or electives. (English and comparative arts are recommended.)

*See listing in Courses of Instruction section for prerequisites.

Sophomore

CHEM 301, 302	Organic (short)	6
or CHEM 305, 306, 307	Organic (long)	9
CHEM 303, 304	Organic Lab (short)	5
BIOS 275	Animal Ecology	4
or BIOS 479	Evolution	
or BIOS 481	Animal Conserv. Biology	
BIOS 342, 343, 354, 355	Principles Physiology	10
PSY 221	Statistics	5
or MATH 250, 251	Statistics	8
PHYS 201, 202, 203	Intro to Physics	15
BIOS 325	Gen. Genetics	5
	Language if needed	12

Junior-Senior

CHEM 490, 491*	General Biochemistry	7
or BIOS 463	Cell Chemistry	4
MICR 311	General Microbiology	5
BIOS 303	Compar. Vert. Anat.	6
	English Composition	4
	Language if needed	12

Arts and Sciences degree requirements and university General Education Requirements as needed.

*Prereq: CHEM 305–307.

Other courses strongly recommended: BIOS 401, 406, 408; MICR 417.

Recommended behavioral and social sciences: ANTH 101 or 355; PSY 231, 273, 332, 336; sociology and computer science courses.

Recommended humanities: philosophy, literature, comparative arts.

Biological Sciences—**Pre-Exercise Physiology Major (B.S.)****Special curriculum; major code BS2516**

The following curriculum is designed to provide students interested in pursuing a graduate degree in exercise or work physiology with the necessary coursework to prepare for advanced study in a research-oriented graduate degree program.

Completion of the coursework, including electives and Arts and Sciences and General Education Requirements, will culminate in the award of the Bachelor of Science in biological sciences pre-exercise physiology.

Although an undergraduate degree in the area of exercise physiology may provide you the opportunity to compete in the job market, most current employment opportunities require a master's or doctoral degree.

You must complete at least 192 quarter hours with at least 90 hours in Arts and Sciences coursework numbered 200 or above. A minimum of 50 quarter hours in the Department of Biological Sciences is required, including departmental requirements and at least 9 quarter hours at the 300–400 level.

Unless otherwise indicated, BIOS/MICR departmental courses may be retaken only once.

Freshman

CHEM 151, 152, 153	Fund. of Chemistry	15
ENG 151	Fr. Comp.: Writing and Rhetoric	5
MATH 263A, B	Calculus	8
PSY 101	Gen. Psychology	5
PSY 221	Statistics for Behav. Sci.	5
or MATH 250 and 251	Intro to Prob. and Stat.	8
BIOS 170, 171, 172, 173*	Intro to Zoology	14

Arts and Sciences degree requirements, university General Education Requirements, and/or electives.

Sophomore

CS 120	Computer Sci. Survey (or equivalent)	5
PHYS 201, 202**	Intro to Physics	10
BIOS 301	Human Anatomy	6
BIOS 345	Human Physiology	5
BIOS 346	Human Physiology Lab	3
BIOS 352	Biomechanics	4
or BIOS 420	Animal Locomotion	
Arts and Sciences degree requirements, university General Education Requirements, and/or electives.		

Junior-Senior

CHEM 301, 302	Organic (short)	6
or CHEM 305, 306, 307	Organic (long)	9
BIOS 463	Cell Chemistry	4
or CHEM 489	Biochemistry	4
or CHEM 490, 491†	General Biochemistry I, II	7
MICR 311	General Microbiology	5
BIOS 320	Animal Cell Biology	4
BIOS 325	General Genetics	5
BIOS 445	Physiology of Exercise	4
BIOS 446	Phys. of Exercise Lab	3
BIOS 275	Animal Ecology	4
or BIOS 479	Evolution	
or BIOS 481	Animal Conserv. Biology	
BIOS 493	Undergrad. Research	6–12
or 494H		
	English Composition	4
	Language if needed	12

Arts and Sciences degree requirements, university General Education Requirements, and electives.

*See listing in Courses of Instruction section for prerequisites.

**PHYS 203 may be required for admission to certain graduate and professional schools.

†Prereq: CHEM 305–307.

Suggested electives

ANTH 101	Intro to Cultural Anth.	5
ANTH 355	Medical Anthropology	4
HCFN 128	Intro to Nutrition	4
HCFN 428	Advanced Nutrition	4
PHIL 231	Philosophy of Sport	4
PHIL 331	Moral Prob. in Med.	5
PSY 231	Psych. of Adjustment	4
PSY 273	Child and Adoles. Psych.	4
PSY 275	Educational Psych.	4
PSY 332	Abnormal Psych.	4
SOC 101	Intro to Sociology	5
BIOS 303	Comp. Anatomy	6
BIOS 401	Adv. Human Anatomy	6
BIOS 402	Human Neuroscience	3
BIOS 409	Neurobiology I	4
BIOS 410	Neurobiology II	4
BIOS 450	Prin. Endocrinology	4

Biological Sciences—Premedicine Major (B.S.) Special curriculum; major code BS2502

No specific major is required by medical colleges or by Ohio University in undergraduate preparation for medicine. You must present preparation in various basic sciences, and many students complete a major in one science or a dual major in two sciences.

For most medical schools, admission prerequisites include an entire year, with labs, in biological sciences, inorganic chemistry, organic chemistry, and physics. Many schools also require a year of college English and college math, and strongly recommend courses in biochemistry, humanities, and the social sciences. Consult the catalog of a particular medical school to make sure you are meeting its prerequisites. Additional coursework in genetics, anatomy, physiology, cell biology, and embryology will improve your preparedness. Courses that fulfill these requirements and recommendations are listed with this major and the chemistry premedicine major.

All medical college applicants are required to take the Medical College Admission Test (MCAT) in spring (preferred) or fall of the calendar year before the year they expect to enroll in medical college.

A major in microbiology is available for students who wish to maximize their potential for graduate study in medicine or health sciences. Microbiology majors who plan to apply to medical school should also take CHEM 303 and 304 Organic Chemistry Lab.

You are encouraged to note particularly the opportunities provided by the Ohio University College of Osteopathic Medicine and the preprofessional advising center (Irvine Hall 111).

As a premedical student majoring in biological sciences, you are required to satisfy the following program, completing a minimum of 50 hours in BIOS/MICR. In addition, you must meet the requirements of the general biological sciences major.

Unless otherwise indicated, BIOS/MICR departmental courses may be retaken only once.

Freshman

CHEM 151, 152, 153	Fund. of Chemistry	15
MATH 263A, B	Calculus	8
BIOS 170, 171, 172, 173*	Intro to Zoology	14
CLAS 227	Gk. and Lat. Roots in	
	Biomedical Terminology	4
	English Composition	5

Arts and Sciences degree requirements, university General Education Requirements, and/or electives. (English and comparative arts are recommended.)

Sophomore

CHEM 305, 306, 307	Organic (long)	9
CHEM 303, 304	Organic Lab	5
PHYS 201, 202, 203	Intro Physics	15
BIOS 275 or BIOS 479 or BIOS 481	Animal Ecology Evolution Animal Conserv. Biology	4
BIOS 325	General Genetics	5
PSY 221 or MATH 250, 251	Statistics	5 or 8
	Language if needed	12

Arts and Sciences degree requirements, university General Education Requirements, and/or electives in humanities and social sciences.

Junior–Senior

MICR 311	General Microbiology	5
BIOS 303	Compar. Vert. Anatomy	6
BIOS 342, 343, 354, 355	Prin. Physiology, labs	10
CHEM 490, 491**	General Biochemistry	7
	English Composition	4
	Language if needed	12
	Other humanities and social sciences	

Choose at least one of the following courses (more are recommended):

BIOS 320	Animal Cell Biology	4
BIOS 326	Lab Genetics	4
BIOS 401	Adv. Human Anatomy	6
BIOS 406	Embryology	6
BIOS 408	Histology	6
BIOS 412	Mol. Cell. Neurobiology	4
BIOS 428	Human Med. Genetics	4
BIOS 441A, 441B	Parasitology	6
BIOS 450	Prin. Endocrinology	4
BIOS 452	Reproductive Physiology	3
MICR 413	Pathogenic Bacteriology	5
MICR 415	Immunology	5
MICR 417	Cellular Immunology	4
MICR 418	Epidemiology	4

Recommended chemistry electives: CHEM 241/242.

Recommended behavioral and social sciences: ANTH 101, 355; PSY 273, 332, 336.

Recommended humanities: philosophy, literature, comparative arts.

*See listing in Courses of Instruction section for prerequisites.

**Prereq: CHEM 305–307.

Biological Sciences—Pre-Optometry Major (B.S.) Special curriculum; major code BS2505

Requirements for admission to schools of optometry are not uniform. A minimum of 90 hours exclusive of military science and physical education is required. However, most students entering optometry school have earned a bachelor's degree. This curriculum meets the admission requirements for a collegiate program and consequently for most independent schools of optometry. Consult the catalog of a particular school to make sure you are meeting its prerequisites. To earn the degree *in absentia*, you must complete at least 144 hours, including all Arts and Sciences and university General Education Requirements and the program outlined below. This must include the departmental area requirements for the general biological sciences major. To graduate from Ohio University without the *in absentia* option, you must fulfill the biological sciences major requirements for your catalog year of entry. Candidates for optometry school normally take the Optometry Admission Test (OAT) in October or February before admission the following fall.

Unless otherwise indicated, BIOS/MICR departmental courses may be retaken only once.

Freshman

CHEM 151, 152, 153	Fund. of Chemistry	15
BIOS 170, 171, 172, 173*	Intro to Zoology	14
PSY 101	Gen. Psychology	5
MATH 250, 251 or PSY 221	Statistics	8
	Statistics for Behavioral Sci.	5
MATH 263A, B	Calculus	8
	English Composition	5

Arts and Sciences degree requirements, university General Education Requirements, and/or electives.

Sophomore

CHEM 305, 306, 307***	Organic Chemistry	9
BIOS 275 or BIOS 479 or BIOS 481	Animal Ecology Evolution Animal Conserv. Biology	4
BIOS 303	Compar. Vert. Anatomy	6
BIOS 325	General Genetics	5

Arts and Sciences degree requirements, university General Education Requirements, and/or electives.

Junior

MICR 311	General Microbiology	5
PHYS 201, 202, 203	Intro Physics	15
BIOS 342, 343, 354, 355	Principles of Physiology	10
BIOS 463 or CHEM 490, 491**	Cell Chemistry General Biochemistry I, II	4 7
	English Composition	4

Arts and Sciences degree requirements, university General Education Requirements, and/or electives.

*See listing in Courses of Instruction section for prerequisites.

**Prereq: CHEM 305–307.

***Organic chemistry labs CHEM 303, 304 are required by many optometry schools. Consult their catalogs or web sites.

Because most students complete a baccalaureate degree before being accepted for professional school, consult the department advisor early in your freshman year for recommendations on degree requirements and electives.

You can obtain further information concerning requirements and the profession of optometry by writing to the American Optometric Association, 243 N. Lindbergh Blvd., St. Louis MO 63141, or consult the web site at <http://home.opTed.org>.

**Biological Sciences—Prepharmacy Major (B.S.)
Special curriculum; major code ND2506**

Transfer to a school of pharmacy occurs after one or two years of coursework at Ohio University—some schools expect transfer after one year, others require two years of work, and others allow either option. Requirements for admission vary widely from school to school. Determine as early as possible the specific admission requirements of the schools to which you may apply and plan your academic program accordingly.

The program listed below is based upon the requirements of the four pharmacy schools in Ohio, but other schools may vary in their requirements. Again, it is your responsibility to ensure that you meet admission standards for a particular school. Consult your advisor for assistance.

The prepharmacy program is not a degree program; a degree in pharmacy is earned only through a professional school. However, accomplishment of the following, plus additional requirements as outlined under departmental requirements, can lead to a B.A. or B.S. degree in biological sciences or chemistry at Ohio University. There is no *in absentia* arrangement for pharmacy.

Unless otherwise indicated, BIOS/MICR departmental courses may be retaken only once.

Freshman

CHEM 151, 152, 153	Fund. of Chemistry	15
MATH 263A, B, C	Calculus	12
BIOS 170, 171, 172, 173*	Intro to Zoology	14
ENG 151	Fr. Comp.: Writing and Rhetoric	5

Social sciences and humanities electives.

Sophomore

CHEM 305, 306, 307	Organic Chemistry	9
CHEM 303, 304	Organic Chemistry Lab	5
PHYS 201, 202, 203	Intro to Physics	15
MICR 311	General Microbiology	5
BIOS 300	Anatomy and Histology	6

One additional English course.

Social sciences and humanities electives.

*See listing in Courses of Instruction section for prerequisites.

**Biological Sciences—Pre-Physical Therapy Major (B.S.)
Special curriculum; major code BS2507**

You may become eligible for transfer to a professional program at the end of your junior year* by fulfilling the prerequisite coursework outlined below. Consult the school's catalog for exact prerequisites. B.S. degree pre-physical therapy students majoring in biological sciences are required to complete the entire program. For more information about the field of physical therapy, see the Physical Therapy listing in this section. See also the Department of Psychology pre-physical therapy major in this section and the School of Physical Therapy listing in the College of Health and Human Services section.

Unless otherwise indicated, BIOS/MICR departmental courses may be retaken only once.

Freshman

CHEM 151, 152, 153	Fund. of Chemistry	15
ENG 151	Freshman Comp.: Writing and Rhetoric	5
MATH 163A, B	Intro to Calculus	7
PHIL 101	Fund. of Philosophy	5
PHIL 130	Intro to Ethics	4
BIOS 170, 171, 172, 173**	Intro to Zoology	14

Arts and Sciences degree requirements, university General Education Requirements, and/or electives.

Sophomore

CHEM 301, 302	Organic (short)	6
PHYS 201, 202***	Intro to Physics	10
PSY 101	General Psychology	5
PSY 221	Stat. for Behav. Sci.	5
PSY 273	Child and Adolescent	4
PT 259A	Intro to Phys. Therapy	2
SOC 101 or ANTH 101	Principles of Sociology Cultural Anthropology	5 5
BIOS 301	Human Anatomy	6
BIOS 345	Human Physiology	4
BIOS 346	Human Physiology Lab	3
BIOS 352 or BIOS 420	Biomechanics Animal Locomotion	4 4

Arts and Sciences degree requirements, university General Education Requirements, and/or electives. ANTH 101 is recommended.

Junior-Senior

MICR 211 [†] or PT 403 [†]	Environ. Microbiology	4
	Pathophysiology	4
PSY 332	Abnormal Psychology	4
BIOS 325	General Genetics	5
BIOS 402 [†]	Human Neuroscience	3
BIOS 445	Physiology of Exercise	5
BIOS 446	Phys. of Exercise Lab	3
BIOS 463 or CHEM 489	Cell Chemistry Biochemistry	4
BIOS 275 or BIOS 479 or BIOS 481	Animal Ecology Evolution Animal Conserv. Biology	4
	English Composition	4

Arts and Sciences degree requirements, university General Education Requirements, and/or electives.

Suggested Electives

ANTH 101	Intro to Cultural Anth.	5
ANTH 355	Medical Anthropology	4
BIOS 320	Animal Cell Biology	4
BIOS 409, 410	Neurobiology I, II	8
CLAS 227	Grk. and Lat. Roots	4
HCFN 128	Intro to Nutrition	4
H5AT 128	Intro to Athletic Training	2
H5AT 326	Recog. and Eval. of Athletic Injuries	4
H5AT 327	Prev./Mgt. of Athletic Injuries	3
HLTH 202	Health Sciences and Lifestyle Choices	4
PHIL 231	Philosophy of Sport	4
PHIL 331	Moral Problems In Med.	5
PSY 231	Psych. of Adjustment	4
PSY 275	Educational Psychology	4

*See note, page 271

**See listing in Courses of Instruction section for prerequisites.

***PHYS 203 may be required for admission to certain graduate and professional schools.

[†]MICR 211 is required for a B.S. in biological sciences. For students who have been accepted into Ohio University's School of Physical Therapy *in absentia*, PT 403 may be used to fulfill the MICR 211 requirement. If BIOS 402 has not been completed before admission to the School of Physical Therapy, you must complete it during your first year.

Biological Sciences—Pre-Veterinary Medicine Major (B.S.)

Special curriculum; major code BS2508

If you plan to attend veterinary school, learn the entrance requirements of the schools of your choice early in your college career. Many biological sciences majors, as well as the major in microbiology, are suitable preparation for veterinary school. Discuss your course selections with your academic advisor.

Many schools of veterinary medicine require a bachelor's degree for admission. A standardized test (MCAT, GRE, or VAT) must be taken at least one year before you expect to enroll in veterinary school. Contact the veterinary schools of your choice or see your advisor to determine which test you need.

You must meet Arts and Sciences and university requirements and the requirements of the biological sciences major; these requirements will fulfill prerequisites of most veterinary schools. Consult the catalog of a particular school to make sure that you are meeting its prerequisites.

Unless otherwise indicated, BIOS/MICR departmental courses may

be retaken only once.

The following core requirements are strongly recommended for preveterinary medicine students:

Area	Recommended Choice
Anatomy	BIOS 303 Comparative Vertebrate Anatomy
Biochemistry	CHEM 490, 491* General Biochemistry
Ecology	BIOS 275 Animal Ecology
Physiology	BIOS 342, 343, 354, 355 Principles of Physiology
Other Biol. Sci.	MICR 311

Recommended electives

MICR 414A	Animal Virology	3
MICR 415 or MICR 417	Immunology Cellular Immunology	5 4
BIOS 406	Vertebrate Embryology	6
BIOS 441A, 441B	Parasitology	6
BIOS 450	Prin. of Endocrinology	4
BIOS 452	Reproductive Physiology	3

Extrdepartmental

CHEM 151, 152, 153	Fund. of Chemistry	15
CHEM 301, 302 or CHEM 305, 306, 307	Organic Chemistry Organic Chemistry	6 9
MATH 263A,B	Calculus	8
PHYS 201, 202, 203 or PHYS 251, 252, 253	Intro to Physics General Physics	15 15
PSY 221 or MATH 250, 251	Stat. for the Beh. Sciences Intro to Prob. and Stat.	5 8

*Prerequisites are CHEM 305, 306, 307.

Biological Sciences—Wildlife Biology Major (B.S.)

Special curriculum; major code BS2515

The Department of Biological Sciences provides a program for undergraduate students in biological sciences who are interested in careers in the conservation and biology of wildlife. Graduates of this program meet the course qualifications for state and federal civil service registers as ecologist, wildlife biologist, wildlife refuge manager, zoologist, and general biologist. This program also provides training for students planning to go on to graduate school in wildlife biology or an allied discipline such as mammalogy, ornithology, or animal ecology. You may want to use elective credits to obtain an Environmental Studies certificate.

Unless otherwise indicated, BIOS/MICR departmental courses may be retaken only once.

Freshman

PBIO 111	Intro to Plant Biology	6
CHEM 151, 152, 153	Fund. of Chemistry	15
MATH 163A, B or MATH 263A, 263B	Intro to Calculus Calculus	7 8
PSY 221	Statistics	5
BIOS 170, 171, 172, 173*	Intro to Zoology English Composition	14 5

Arts and Sciences degree requirements, university General Education Requirements, and/or electives.

Sophomore

CHEM 301, 302	Organic Chemistry	6
PHYS 201, 202**	Intro to Physics	10
BIOS 275	Animal Ecology	4
BIOS 303	Comp. Vert. Anatomy	6
BIOS 325	Genetics	5
BIOS 376	Field Ecology	4

Arts and Sciences degree requirements, university General Education Requirements, and/or electives.

Junior-Senior

	English composition	4
BIOS 342, 343	Principles Physiology	6
BIOS 479	Evolution	4

A minimum of 16 hours in wildlife subjects selected from

BIOS 425	Evolutionary Genetics	4
BIOS 471	Ornithology	5
BIOS 474	Mammalogy	6
BIOS 477	Population Ecology	4
BIOS 478	Community Ecology	4
BIOS 481	Animal Conservation Biol.	4
BIOS 492	Wildlife Topics	2

Substitutions can be recommended by your advisor but must be approved in writing by the curriculum chair.

A minimum of 14 hours in plant sciences (PBIOS major courses only), including PBIOS 111.

If you plan to go on to graduate school, you should take BIOS 493 or BIOS 494H Undergraduate Research.

*See listing in Courses of Instruction section for prerequisites.

**PHYS 203 may be required for admission to certain graduate and professional schools.

Chemistry and Biochemistry

Upon completing the requirements for the B.S. degree with a major in chemistry, you are eligible for professional status in the American Chemical Society. Completion of a B.A. degree in chemistry does not qualify you for certification.

Due to changes in standards for teacher licensure in the State of Ohio, the current program in chemistry is subject to change. If you are interested in becoming licensed to teach chemistry at the secondary level, contact the Office of Student Services in the College of Education.

Foreign language requirements should be met with German or Russian. Graduate schools generally require a reading knowledge of one or more foreign languages, with German and/or Russian recommended. Details of Ohio University's M.S. and Ph.D. programs are given in the *Graduate Catalog*.

All chemistry laboratory courses require a \$20 breakage and supplies card, the unused portion of which will be refunded.

Completion of the B.A. or B.S. degree requirements automatically completes the requirement of the College of Arts and Sciences for at least nine hours in the major at the junior-senior level.

Chemistry Major (B.S. or B.A.)**Major codes BS3311, BA3311**

The B.S. degree program is chosen by students planning to enter a graduate program in chemistry or work in the chemical industry. Requirements for the B.S. degree include

CHEM 151-152-153	Fund. of Chemistry	15
CHEM 241	Quantitative Analysis	4
CHEM 242	Quant. Analysis Lab	1
CHEM 305, 306, 307	Organic Chemistry	9
CHEM 308, 309	Organic Chemistry Lab	6
CHEM 400A	Advanced Organic Lab	2
CHEM 400B	Advanced Inorganic Lab	2
CHEM 453, 454, 455	Physical Chemistry	9
CHEM 456, 457	Physical Chemistry Lab	6
CHEM 476	Mod. Inorganic Chemistry	4
CHEM 431, 434	Chem. Sep. Methods, Lab	4
CHEM 432, 435	Chemical Instrumentation and Electrochemistry, Lab	4
CHEM 433, 436	Spectrochem. Anal., Lab	5
CHEM 489	Basic Biochemistry	4
or CHEM 490-491-492	General Biochemistry	or 10

Extracurricular requirements include MATH 263A-B-C-D and PHYS 251-252-253, which should be completed by the end of the second year. ENG 151 and 305J are recommended to meet English composition requirements.

Requirements for the B.A. degree in chemistry include

CHEM 151, 152, 153	Fund. of Chemistry	15
CHEM 241	Quantitative Analysis	4
CHEM 242	Quantitative Analysis Lab	1
CHEM 301, 302	Organic Chemistry	6
or CHEM 305, 306, 307	Organic Chemistry	or 9
CHEM 303, 304	Organic Chemistry Lab	5
or CHEM 308, 309	Organic Chemistry Lab	or 6
CHEM 325	Instr. Meth. of Analysis	4
or any two pairs:		
CHEM 431, 434	Chem. Sep. Methods, Lab	4
CHEM 432, 435	Chemical Instrumentation and Electrochemistry, Lab	4
CHEM 433, 436	Spectrochem. Anal., Lab	5
CHEM 351	Physical Chemistry	4
or CHEM 453, 454, 455	Physical Chemistry	or 9
CHEM 476	Mod. Inorganic Chem.	4

One course in biochemistry

A full year's work is required in at least one of the following fields:

Analytical: 241-242 and any two of the pairs 431-434, 432-435, 433-436

Organic: 305-306-307

Physical: 453-454-455

Biochemistry: 490-491-492

ENG 151 and 305J are recommended to meet English Composition requirements.

Chemistry Minor Minor code OR3311

A minor program in chemistry requires a 2.0 overall g.p.a. and completion of at least 30 quarter hours of chemistry coursework, including

CHEM 151, 152, 153	Fund. of Chemistry	15
CHEM 301, 302, 303 or CHEM 305, 306, 307	Organic Chemistry Organic Chemistry	8 or 9

Any two of the following:

CHEM 241 and 242	Quantitative Analysis	5
CHEM 351 or CHEM 453	Physical Chemistry	4 or 3
CHEM 489 or 490	Biochemistry	4
CHEM 476	Mod. Inorganic Chem.	4

Additional courses required to meet the 30-hour minimum can be chosen from any other courses for which prerequisites have been satisfied.

You must have a minimum g.p.a. of 2.0 in coursework taken for the minor.

Chemistry—Biochemistry Major (B.S.) Special curriculum; major code BS3316

This program serves students who have an interest in biological applications of chemistry as a biochemist or health scientist in medicine, industry, or research; as preparation for graduate studies in biochemistry or another life science such as molecular biology, microbiology, or immunology; or as preparation for combining a career in medicine, dentistry, pharmacy, etc., with research. The curriculum includes all fundamental areas of chemical and biological sciences with emphasis on advanced biochemistry, including biochemical laboratory techniques, instruments, experiment design, and protocols.

Freshman

CHEM 151, 152, 153	Fund. of Chemistry	15
MATH 263 A, B	Calculus	8
BIOS 170, 171, 172, 173	Intro to Zoology	14
	English composition	5

Arts and Sciences degree and General Education Requirements.

Sophomore

CHEM 241, 242	Quantitative Analysis	5
CHEM 305, 306, 307	Organic Chemistry	9
CHEM 308, 309	Organic Lab	6
PHYS 201, 202, 203	Intro to Physics	15
BIOS 325	General Genetics	5

Arts and Sciences degree and General Education Requirements.

Junior

CHEM 325 or CHEM 431, 434	Instr. Analysis Chem. Separation Meth.	4
CHEM 351	Physical Chemistry	4
CHEM 490, 491, 492	General Biochemistry	10
ENG 305J	Technical Writing	4

Arts and Sciences degree and General Education Requirements.

Senior

PBIO 450	Biotech. and Genetic Eng.	4
CHEM 493	Biochemical Techniques	3
BIOS 342, 343	Prin. of Physiology	6
Elective: CHEM 494	Biochemical Research	1-5

Environmental Chemistry Major (B.S. or B.A.) Special curricula; major codes BS3315, BA3315

To prepare for a career in environmental chemistry, you can pursue the regular B.S. or B.A. in chemistry and take some of the following environmentally related courses as electives. The Department of Chemistry and Biochemistry has advisors in environmental chemistry to assist you in planning your studies in the field. See also the environmental degree programs in the Departments of Biological Sciences, Environmental and Plant Biology, Geography, and Geology.

The B.S. degree program is chosen by students seeking entrance into graduate programs in chemistry. Requirements for the B.S. degree in environmental chemistry include

CHEM 151, 152, 153	Fund. of Chemistry	15
CHEM 241	Quantitative Analysis	4
CHEM 242	Quantitative Analysis Lab	1
CHEM 305, 306, 307	Organic Chemistry	9
CHEM 308, 309	Organic Chemistry Lab	6
CHEM 400A	Advanced Organic Lab	2
CHEM 400B	Advanced Inorganic Lab	2
CHEM 453, 454, 455	Physical Chemistry	9
CHEM 456, 457	Physical Chemistry Lab	6
CHEM 476	Mod. Inorganic Chem.	3
CHEM 431	Chem. Separation Meth.	3
CHEM 432	Chemical Instrumentation and Electrochemistry	3
CHEM 433	Spectrochemical Analysis	3
CHEM 434	Chemical Separations Lab	1
CHEM 435	Chemical Instrumentation and Electrochemistry Lab	1
CHEM 436	Spectrochem. Anal. Lab	2
CHEM 489 or CHEM 490, 491, 492	Basic Biochemistry General Biochemistry	4 10

Extrdepartmental requirements

MATH 263A-B-C-D

PHYS 251-252-253

These courses should be completed by the end of the second year.

Requirements for the B.A. degree in environmental chemistry include

CHEM 151, 152, 153	Fundamentals of Chemistry	15
CHEM 241, 242	Quantitative Analysis, Lab	5
CHEM 301,302 or CHEM 305,306,307	Organic Chemistry Organic Chemistry	6 or 9
CHEM 303,304 or CHEM 308,309	Organic Chemistry Lab Organic Chemistry Lab	5 or 6

CHEM 325 or any two of the following pairs:	Instr. Meth. of Analysis	4
CHEM 431, 434	Chemical Separation Methods, Lab	4
CHEM 432, 435	Chemical Instrumentation and Electrochemistry, Lab	4
CHEM 433, 436	Spectrochemical Anal., Lab	5
CHEM 351 or CHEM 453, 454, 455	Physical Chemistry	4 or 9
CHEM 476	Mod. Inorganic Chem.	4
One course	Biochemistry	

A full year's work is required in at least one of the following fields:

Analytical: 241–242 and any two pairs of 431–434, 432–435, or 433–436

Organic: 305–306–307

Physical: 453–454–455

Biochemistry: 490–491–492

Suggested electives

BIOS 275	Animal Ecology	4
MICR 211, 212	Env. Microbiology, Lab	6
CHEM 330	Intro to Toxicology	4
BU5L 370	Environmental Law	4
ECON 313	Econ. of the Environment	4
ECON 314	Natural Res. Economics	4
ECON 335	Economics of Energy	4
CHE 461	Environ. Assessments	3
CE 452	Water and Wastewater Analysis	3
GEOG 201	Environmental Geography	4
GEOG 241	Global Issues in Env. Geog.	4
GEOG 350	Land Use Planning	4
GEOG 353	Environmental Planning	4
GEOG 440	Environ. Impact Analysis	4
GEOL 215	Environmental Geology	4
GEOL 231	Water and Pollution	4
GEOL 480	Hydrogeology	4
P8IO 410	Plants and Soil	4
P8IO 425	Plant Ecology	5
POLS 425	Env. and Natural Res. Economics	4

Forensic Chemistry Major (B.S.)

Major code BS3310

Forensic chemistry is the application of chemistry and related sciences to criminal investigation. The program prepares you for work in modern crime laboratories or other law enforcement agencies such as FDA, OSHA, and EPA, or for graduate work in forensic chemistry or forensic sciences. Requirements for the degree include

CHEM 151, 152, 153	Fund. of Chemistry	15
CHEM 241, 242	Quantitative Analysis, Lab	5
CHEM 305, 306, 307 308, 309	Organic Chemistry, Lab	15
CHEM 330	Intro to Toxicology	4
CHEM 351	Physical Chemistry	4
CHEM 431, 434	Chem. Sep. Methods, Lab	4
CHEM 432, 435	Chemical Instrumentation and Electrochemistry, Lab	4

CHEM 433, 436	Spectrochem. Anal., Lab	5
CHEM 487	Forensic Chemistry	6
Any four of the following:		
CHEM 460	Spectroscopic Methods in Organic Chemistry	3
CHEM 476	Mod. Inorganic Chemistry	4
CHEM 488A	Topics in Forensic Science I	3
CHEM 4888	Topics in Forensic Science II	3
CHEM 489	Basic Biochemistry	4
BIOS 364	Forensic Biology	4

Extrdepartmental requirements

LET 100	Intro to Law Enforc. Tech.	3
LET 120	Const., Crim., Civil Law	3
LET 140	Intro to Criminalistics	3
LET 200	Proc., Rules, and Tests of Evidence	4
LET 250	Vice and Narcotic Cont.	3
LET 260	Criminal Investigation	3
MATH 263A, B	Calculus	8
PHYS 251, 252, 253	General Physics	15
BIOS 170, 171	Intro to Zoology	10
BIOS 325	General Genetics	5
BIOS 326	Laboratory Genetics	4
PSY 221	Statistics for the Behavioral Sciences	5

ENG 151 and 305J are recommended for meeting English composition requirements.

Consult the director, Forensic Chemistry Program, Department of Chemistry and Biochemistry, for advance advising and schedule planning.

*No credit for CHEM 488A if you already have credit for VICO 222.

Chemistry—Pre dentistry Major (B.S. or B.A.) Special curricula; major codes BS3312, BA3312

To major in chemistry and prepare for admission to dental school, you have the option of completing either of two degree programs: one leading to a B.S. and the other to a B.A. degree. Variations on these programs are possible; consult with your advisor. See also the pre dentistry major listed under Biological Sciences in this section.

Requirements for the B.S. program include

Freshman

CHEM 151, 152, 153	Fund. of Chemistry	15
BIOS 170, 171, 172, 173	Intro to Zoology	14
MATH 263A, B or MATH 163A, B	Calculus Intro to Calculus	8 or 7
	English Composition	5

Arts and Sciences degree requirements, university General Education Requirements, and/or electives.

Sophomore

CHEM 241, 242	Quantitative Analysis	5
CHEM 305, 306, 307	Organic Chemistry	9
CHEM 308, 309	Organic Lab	6
PHYS 251, 252, 253 or PHYS 201, 202, 203	General Physics Intro to Physics	15

Arts and Sciences degree requirements, university General Education Requirements, and/or electives.

Junior

CHEM 325	Instrumental Analysis	4
CHEM 351	Physical Chemistry	4
ENG 305J	Technical Writing	4
BIOS 325	General Genetics	5
BIOS 342, 343	Intro to Physiology	6

Arts and Sciences degree requirements, university General Education Requirements, and/or electives.

Senior

CHEM 476	Modern Inorganic Chem.	4
CHEM 490, 491, 492	General Biochemistry	10
BIOS 303	Compar. Vert. Anatomy	6
MICR 311 or BIOS 406	General Microbiology Embryology	6 or 6

Arts and Sciences degree requirements, university General Education Requirements, and/or electives. Suggested electives: BIOS 407 and 408, and a course in statistics.

Requirements for the B.A. program include**Freshman**

CHEM 151, 152, 153	Fund. of Chemistry	15
BIOS 170, 171, 172, 173	Intro to Zoology	14
MATH 163A, B	Intro to Calculus	7
	English composition	5

Arts and Sciences degree requirements, university General Education Requirements, and/or electives.

Sophomore

CHEM 241, 242	Quantitative Analysis	5
CHEM 305, 306, 307	Organic Chemistry	9
CHEM 308, 309	Organic Lab	6
PHYS 201, 202, 203	Intro to Physics	15

Arts and Sciences degree requirements, university General Education Requirements, and/or electives.

Junior

CHEM 325	Instrumental Analysis	4
CHEM 351	Physical Chemistry	4
ENG 305J	Technical Writing	4
BIOS 325	General Genetics	5

Arts and Sciences degree requirements, university General Education Requirements, and/or electives.

Senior

CHEM 476	Modern Inorganic Chem.	4
CHEM 490, 491, 492	General Biochemistry	10
BIOS 303	Compar. Vert. Anatomy	6

Arts and Sciences degree requirements, university General Education Requirements, and/or electives.

Suggested electives: BIOS 407, 408, and a course in statistics.

Chemistry—Premedicine Major (B.S. or B.A.)
Special curricula; major codes BS3314, BA3314

To major in chemistry and prepare for admission to medical school, you can complete either of two programs: one leading to a B.S. and the other to a B.A. degree. Variations on these programs are possible; consult your advisor. See also the Biological Sciences premedicine major.

Requirements for the B.S. program include**Freshman**

CHEM 151, 152, 153	Fund. of Chemistry	15
MATH 263A, B or MATH 163A, B	Calculus Intro to Calculus	8 or 7
BIOS 170, 171, 172, 173	Intro to Zoology	14
PSY 221	Statistics	5
	English Composition	5

Arts and Sciences degree requirements, university General Education Requirements, and/or electives.

Sophomore

CHEM 241, 242	Quantitative Analysis	5
CHEM 305, 306, 307	Organic Chemistry	9
CHEM 308, 309	Organic Lab	6
PHYS 251, 252, 253 or PHYS 201, 202, 203	General Physics Intro to Physics	15

Arts and Sciences degree requirements, university General Education Requirements, and/or electives.

Junior

CHEM 325	Instrumental Analysis	4
CHEM 351	Physical Chemistry	4
BIOS 325	General Genetics	5
BIOS 342, 343	Prin. of Physiology	6
ENG 305J	Technical Writing	4

Arts and Sciences degree requirements, university General Education Requirements, and/or electives.

Senior

CHEM 476	Modern Inorganic Chem.	4
CHEM 490, 491, 492	General Biochemistry	10
BIOS 303	Comp. Vert. Anatomy	6
MICR 311 or BIOS 406	General Microbiology Embryology	6

Arts and Sciences degree requirements, university General Education Requirements, and/or electives.

Requirements for the B.A. program include**Freshman**

CHEM 151, 152, 153	Fund. of Chemistry	15
MATH 163A, B	Intro to Calculus	7
BIOS 170, 171, 172, 173	Intro to Zoology	14
	English Composition	5

Arts and Sciences degree requirements, university General Education Requirements, and/or electives.

Sophomore

CHEM 241, 242	Quantitative Analysis	5
CHEM 305, 306, 307	Organic Chemistry	9
CHEM 308, 309	Organic Lab	6
PHYS 201, 202, 203	Intro to Physics	15

Arts and Sciences degree requirements, university General Education Requirements, and/or electives.

Junior

CHEM 325	Instrumental Analysis	4
CHEM 351	Physical Chemistry	4
ENG 305J	Technical Writing	4
BIOS 325	General Genetics	5

Arts and Sciences degree requirements, university General Education Requirements, and/or electives.

Senior

CHEM 476	Modern Inorganic Chem.	4
CHEM 490, 491, 492	General Biochemistry	10
BIOS 303	Compar. Vert. Anatomy	6

Arts and Sciences degree requirements, university General Education Requirements, and/or electives.

Chemistry—Prepharmacy Major (B.S.)**Special curriculum; major code BS3313**

Completion of the program below will result in a B.S. degree with a major in chemistry. The program is specifically designed to prepare the student for admission into a Doctor of Pharmacy program at an accredited pharmacy school. Graduates of a Doctor of Pharmacy program are eligible to take licensure examinations to become registered pharmacists.

The program listed below is based upon the requirements of the four pharmacy schools in Ohio, but other schools may vary in their requirements. It is the responsibility of the student to ensure that the admission requirements for a particular school are met. Consult your advisor for assistance.

Unless otherwise indicated, BIOS/MICR departmental courses may be retaken only once.

Freshman

CHEM 151, 152, 153	Fund. of Chemistry	15
MATH 263A, B	Calculus	8
BIOS 170, 171, 172, 173	Intro to Zoology	14
ENG 151	Composition	5

Arts and Sciences degree requirements, university General Education Requirements, and/or electives.

Sophomore

CHEM 241, 242	Quantitative Analysis	5
CHEM 305, 306, 307	Organic Chemistry	9
CHEM 308, 309	Organic Chemistry Lab	6
PHYS 201, 202, 203	Intro to Physics	15
PSY 221	Statistics for Behavioral Sci.	5
or MATH 250	Intro. to Prob. and Stat. I	4

Arts and Sciences degree requirements, university General Education Requirements, and/or electives.

Junior

CHEM 325	Instr. Methods of Analysis	4
CHEM 351	Physical Chemistry	4
BIOS 325	General Genetics	5
ENG 305J	Technical Writing	4

Arts and Sciences degree requirements, university General Education Requirements, and/or electives.

Senior

CHEM 490, 491, 492	General Biochemistry	10
BIOS 300	Anatomy and Histology	6
or BIOS 301	Human Anatomy	6
MICR 311	General Microbiology	5

Arts and Sciences degree requirements, university General Education Requirements, and/or electives.

Additional required courses to be admitted into a Doctor of Pharmacy program: INCO 101, Interpersonal Communications; and ECON 103, Principals of Microeconomics. It is suggested that these courses be taken during either the junior or senior year.

Classics

The B.A. degree in classics includes four possible tracks reflecting the range of interests in the field. Each track requires a different balance of study in classics (Greek and Latin) and classical civilization.

The department offers courses in Greek, Latin, classical archaeology (CLAR), and classics texts in translation (CLAS). Although there is no specific major in archaeology or classics in English, the Classical Civilization major offers the opportunity to concentrate in either area. In the Courses of Instruction section, look under Classics for Classical Archaeology and Classics in English; and look under Foreign Languages and Literature for courses in Greek and Latin.

The department offers two study-abroad programs in alternate years, a 10 week spring program in Greece, and a 3 week winter intersession program in Rome. The program in Greece is geared toward intermediate-level students of Greek. While in Greece, you will visit archaeological and historical sites and learn Modern Greek as you continue your study of ancient Greek texts. The winter intersession in Rome is an intensive archaeological survey of the growth of Roman civilization through the on-site examination of monuments and artifacts.

Classical Civilization Major (B.A.)**Major code BA5214**

The Classical Civilization major consists of: completion of the Latin or Greek language sequence through 213, and a minimum of 48 hours of coursework, including a senior research project. This would include:

A. A minimum of 20 hours of coursework from 200 level CLAS and CLAR courses (CLAS 227 not eligible), and/or 300-400 level LAT and GK courses. Of the 20 hours, 12 must be from 3 of the following courses:

CLAS 252	Classical Athens	4
CLAS 254	Rome under the Caesars	4
CLAR 211	Greek Archaeology	4
CLAR 212	Roman Archaeology	4

B. A minimum of 20 hours from 300-400 level CLAS, CLAR, LAT and/or GK courses.

C. 8-10 hours from extadepartmental courses approved in consultation with a Classics faculty advisor in connection with the student's approved course of study.

Classical Civilization Minor**Minor code OR5214**

The Classical Civilization minor requires a minimum of 28 hours of coursework in Classics above the 100 level, including:

A. A minimum of 16 hours of coursework from 200 level CLAS and CLAR courses (CLAS 227 not eligible), and/or 200 level LAT or GK courses, including one of the following courses in Greek culture:

CLAS 252	Classical Athens	4
CLAR 211	Greek Archaeology	4
and one of the following courses in Roman culture:		
CLAS 254	Rome under the Caesars	4
CLAR 212	Roman Archaeology	4

B. A minimum of 12 hours from 300-400 level CLAS and CLAR courses. No knowledge of the Greek or Latin languages is required for the Classical Civilization minor.

Greek Major (B.A.) **Major code BA5212**

Take 28 hours in Greek beyond GK 213, and 24 additional hours from approved CLAS, CLAR, LAT and/or GK courses.

Greek Minor **Minor code OR5212**

Take 12 hours in Greek beyond GK 213, and 12 additional hours from approved CLAS, CLAR, LAT and/or GK courses.

Greek and Latin Major (B.A.) **Major code BA5213**

Take a total of 40 hours in Greek and Latin beyond GK and LAT 213; and 24 additional hours, a minimum of 12 from the Department of Classics and the rest from approved CLAS, CLAR, LAT and/or GK courses.

Latin Major (B.A.) **Major code BA5211**

Take 28 hours in Latin beyond LAT 213; and 24 additional hours, a minimum of 12 from the Department of Classics and the rest from approved CLAS, CLAR, LAT and/or GK courses.

Latin Minor **Minor code OR5211**

Take 12 hours in Latin beyond LAT 213 and 12 additional hours from approved CLAS, CLAR, LAT and/or GK courses.

Suggested electives:

Anthropology

ANTH 202	Intro to Anthropological Archaeology	5
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Art History

AH 320	Greek Art	4
AH 321	Roman Art	4
AH 351	Ancient Architecture	4

History

HIST 328	The World of Aristophanes	3
HIST 329B	Ancient Greece	4
HIST 329C	Ancient Rome	4
HIST 331	The Ancient Greek Games	4

Humanities

HUM 107	Great Books	4
HUM 307	Great Books	4

Philosophy

PHIL 310	History of Western Philosophy	5
PHIL 418	Plato	5
PHIL 419	Aristotle	5

Political Science

POLS 371	Plato, Aristotle, and Pre-modern Political Thought	5
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Computer Science

Computer Science Major (B.A. or B.S.) **Major codes BA0701, BS0701**

In the College of Arts and Sciences you may earn a B.A. or a B.S. in computer science. The Russ College of Engineering and Technology awards a Bachelor of Science in Computer Science.

The B.A. requires successful completion of the following courses:

CS 240A, B, C	Intro to Computer Science	13
EE 222	Intro to Digital Circuits	3
EE 367, 303	Intro to Microprocessors Intermediate Lab II	4 1
CS 300	Intro to Discrete Structures	5
CS 320	Organization of Programming Languages	5
CS 361	Data Structures	5
CS 404	Design and Analysis of Algorithms	5
CS 406	Computation Theory	5
CS 442	Operating Systems and Computer Architecture I	5
CS 456	Software Design and Devel.	5
MATH 263A,B,C,D	Calculus	16

Note that the prerequisite for EE 222 is CS 240C; the prerequisite for EE 303 is EE 367; the prerequisite for EE 367 is EE 222 and CS 240C.

The B.S. requires that you complete the B.S. requirements as well as:

Two additional 400-level computer science courses

One statistics course (QBA 201, PSY 221, ECON 381, INCO 301, or EE 371)

One of the following science sequences:

CHEM 151, 152, 123	Fund. of Chemistry	14
CHEM 151, 152, 153	Fund. of Chemistry	15
PHYS 251, 252, 253	General Physics	15

Plus an additional laboratory science course from CHEM, PHYS, PBIO, or BIOS. The additional lab course must be 1) in a science other than the sequence chosen above, and 2) a required course for majors in that discipline.

All computer science majors in the College of Arts and Sciences must complete the appropriate Arts and Sciences foreign language requirement.

You must earn a grade of 2.0 or better in each computer science and mathematics course.

Criminology

See Sociology—Criminology Major.

Dentistry

See Biological Sciences or Chemistry, Pre-dentistry Major.

Drama

See Theater

Ecology

See Biological Sciences or Environmental and Plant Biology.

Economics

Economics (B.A.) Major code BA4221

Two opportunities are open to students interested in majoring in economics: a liberal arts program in the College of Arts and Sciences and a business economics program in the College of Business.

To major in economics in the College of Arts and Sciences, you must complete the B.A. degree requirements of the college and the following program:

MATH 163A	Intro to Calculus	4
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40 hours of economics, including:

ECON 103	Prin. of Microeconomics	4
ECON 104	Prin. of Macroeconomics	4
ECON 303	Microeconomics	4
ECON 304	Macroeconomics	4
ECON 381	Intro to Econ. Statistics and Econometrics	4
ECON 385	Intro to Econ. Methodology and Research	4
or ECON 482	Topics in Econometrics	

If you have definite career goals, you are encouraged to follow a specific track within the economics major. A track identifies electives that are most relevant to a given career. Additional information is available from the Department of Economics.

Courses for the prelaw track

ECON 213	Current Economic Problems	4
ECON 316	Economics and the Law	4
ECON 332	Industrial Organization	4
ECON 334	Econ. and Antitrust Law	4
ECON 337	Govt. Reg. of Business	4

Courses for the policy analysis track

ECON 213	Current Economic Problems	4
ECON 312	Economics of Poverty	4
ECON 313	Econ. of the Environment	4
ECON 315	Economics of Health Care	4
ECON 425	Public Policy Economics	4
ECON 430	Public Finance	4

Courses for the business economics track

ECON 305	Managerial Economics	4
ECON 320	Labor Economics	4
ECON 332	Industrial Organization	4
ECON 337	Govt. Reg. of Business	4
ECON 340	International Trade	4
ECON 360	Money and Banking	4

Economics Minor Minor code OR4221

A minor in economics consists of a minimum of 28 credit hours in economics including

ECON 103	Prin. of Microeconomics	4
ECON 104	Prin. of Macroeconomics	4
ECON 303	Microeconomics	4
ECON 304	Macroeconomics	4

At least two other courses at the 300 level or above

Economics Pre-Foreign Service Major (B.A.) Special curriculum; major code BA4223

To prepare for the annual foreign service officer examinations, you are advised to acquire as broad an education as possible. Facility in written and spoken English; competency in a foreign language; and a good background in economics, history, political science, business, or public administration are essential. A pre-foreign service major is available through the Departments of Economics, History, or Political Science. You can obtain detailed information about foreign service officer examinations, including sample questions from previous examinations, from these departments.

Economics—Prelaw Major (B.A.) Special curriculum; major code BA4222

If you are in the College of Arts and Sciences and plan to enter law school, complete the specific requirements for the Bachelor of Arts degree. No special curriculum is prescribed; as a prelaw major, you may complete a major of your principal interest. The Departments of Economics, English, History, Philosophy, Political Science, and Sociology have designated advisors assigned to help students interested in law careers. For further information, see Law in this section of the catalog.

English

The Department of English offers majors in English, creative writing, prelaw, and pretheology. If you are an Arts and Sciences student seeking secondary school teaching certification in English, you will complete that portion of your degree program by satisfying the requirements under Integrated Language Arts in the College of Education section of the catalog.

Honors work in English is available through (1) the Honors Tutorial College—see Departmental Honors under Honors Tutorial College, (2) an intensive two-year major program by tutorial instruction offered by the department beginning each fall quarter—information is available from the department, or (3) English 499H—information is available from the department.

Due to changes in standards for teacher licensure in the State of Ohio, the current program in English is subject to change. If you are interested in becoming licensed to teach English at the secondary level (middle school or high school), read the section on Integrated Language Arts and contact the Office of Student Services in the College of Education.

English Major (B.A.) Major code BAS231

The major requirement for the literature-based B.A. degree consists of at least 56 hours above 199, including:

Two of the following three:

ENG 201	Critical Appr. to Fiction	4
ENG 202	Critical Appr. to Poetry	4
ENG 203	Critical Appr. to Drama	4
ENG 301	Shakespeare: Histories	4
or ENG 302	Shakespeare: Comedies	4
or ENG 303	Shakespeare: Tragedies	4

Two of the following three:

ENG 311	English Lit. to 1500	4
ENG 312	English Lit 1500–1660	4

ENG 313	English Lit 1660–1800	4
ENG 314	English Lit 1800–1900	4
or ENG 315	English Lit 1900–Present	4
Two of the following three:		
ENG 321	American Lit. to 1865	4
ENG 322	American Lit. 1865–1918	4
ENG 323	American Lit. 1918–Pres.	4
ENG 351	Hist. of the English Lang.	4
or ENG 352	Dev. of Amer. English	4
or ENG 353	Struct. of Amer. English	4
ENG 399	Literary Theory	4
ENG 460	Literary Topics	4
ENG 464	Major English Authors	4
or ENG 465	Major American Authors	4
or ENG 466	Major Intl. Authors	4

Two 300- or 400-level electives

ENG 307J is a prerequisite for ENG 399 and consequently for ENG 460, 464, 465, and 466. You are encouraged to satisfy your Tier I junior composition requirement with 307J. Because a "J" course taken to satisfy the Tier I requirement will not count toward hours in the major, 307J is not listed with other major requirements.

English Minor Minor code OR5231

The English minor consists of a minimum of 28 hours above 199, including

Two of the following:		
ENG 201	Critical Appr. to Fiction	4
ENG 202	Critical Appr. to Poetry	4
ENG 203	Critical Appr. to Drama	4
One of the following:		
ENG 311	English Lit. to 1500	4
ENG 312	English Lit 1500–1660	4
ENG 313	English Lit 1660–1800	4
ENG 314	English Lit 1800–1900	4
ENG 315	English Lit 1900–Present	4
One of the following:		
ENG 321	American Lit. to 1865	4
ENG 322	American Lit. 1865–1918	4
ENG 323	American Lit. 1918–Pres.	4

Three additional courses above 299

English—Creative Writing Major (B.A.) Special curriculum; major code BA5232

By combining selected creative writing courses with the regular English major, you can complete a special program in creative writing. To major in creative writing, you will take 16 hours of creative writing, 12 of which will be in addition to the 56 hours required for an English major, and 4 of which will be 4B1 or 4B2 or 4B3 instead of 460.

English—Prelaw Major (B.A.) Special curriculum; major code BA5234

If you are in the College of Arts and Sciences and plan to enter law school, complete the specific requirements for the Bachelor of Arts degree in English (BA5231, BA5232) and take relevant electives in other schools and departments. Consult your faculty advisor. Law schools prescribe no special curriculum. As a prelaw major, you may complete a major of your principal interest. The Departments of Economics, English, History, Philosophy, Political Science, and Sociology have designated advisors assigned to help students interested in law careers. For further information, see "Law" in this section of the catalog.

English—Pretheology Major (B.A.) Special curriculum; major code BA5233

If you plan to enter a theological seminary or do graduate study in religion, it is recommended that you take a broad program, including the following (with suggested minimum quarter hours): philosophy (12); courses on the texts and history of religions (15); English composition and literature, world literature (21); history, including HIST 354, 356C, and 370 (15); social sciences (21); foreign languages (18); natural sciences (9); public speaking (3). Arrange your program to meet the requirements for the Bachelor of Arts degree and the university General Education Requirements. It is advisable to major in philosophy, English, or one of the social sciences. Check the entrance requirements of the theological seminaries, other religious educational institutions, or graduate schools of your choice and plan your curriculum accordingly. A pretheology major is also available from the Department of History or Philosophy.

Study of the Environment

The study of the environment includes the physical nature of the planet as well as plant and animal interactions involving other living organisms, space, land, and water. The Departments of Biological Sciences, Chemistry and Biochemistry, Environmental and Plant Biology, Geography, and Geological Sciences offer programs for preparation in the study of the environment. These programs allow you to develop a fundamental knowledge of the nature of basic environmental parameters; a sense of the complex interactions of living organisms, including humans, on those parameters; and a basis for approaching solutions to problems resulting from this impact. To major in the study of the environment at Ohio University, choose a discipline for intensive investigation (biological sciences, chemistry, environmental and plant biology, geography, geological sciences, microbiology) and, in consultation with an advisor in that department, develop a program to meet your goals.

The following degree programs are offered:

- 1 Preparation for Environmental Biology (Biological Sciences Emphasis)
- 2 Preparation for Environmental Biology (Plant Biology Emphasis)
- 3 Preparation for Environmental Chemistry
- 4 Preparation for Environmental Geography
- 5 Preparation for Environmental Geology

In addition, the Department of Geography offers an environmental prelaw major.

For the specific requirements of each program, refer to the respective department's listing in this section of the catalog.

The College of Arts and Sciences sponsors the undergraduate Environmental Studies Certificate Program for students who are interested in environmental studies but do not wish to major in the field. The program is available to students in any major within the university. See the Environmental Studies Certificate Program listing in this section for requirements.

Environmental and Plant Biology

For students interested in careers in plant biology, plant pathology, biotechnology, environmental biology, natural resources, conservation, field biology, agronomy, plant breeding, freshwater and marine biology, or cell biology, the Department of Environmental and Plant Biology offers major programs in plant biology, environmental biology, field biology, and cell biology and biotechnology.

Plant Biology Major (B.A. or B.S.)

Major codes BA2111, BS2111

The B.A. degree in plant biology is designed for students interested in the plant sciences who desire a broad liberal education. The flexibility in this program allows for either a minor or second major in another discipline such as economics, business administration, computer science, anthropology, sociology, geography, geological sciences, microbiology, or biological sciences. If you plan to do graduate studies in plant biology or a related biological science, consult a departmental advisor for assistance in selecting a program to prepare you for an advanced degree.

Requirements for the B.A. degree are a minimum of 40 credit hours in PBIO, including

PBIO 110, 111	Intro to Plant Biology	12
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Minimum of two courses from each of the following three areas:

Area A

PBIO 331	Plant Genetics	5
PBIO 412	Plant Pathology	5
PBIO 424	Plant Physiology	6
PBIO 427	Molecular Genetics	3
PBIO 431	Cell Biology	5
PBIO 450	Biotechnology and Genetic Engineering	4
PBIO 453	Develop. Physiology	4

Area B

PBIO 309	Plant Systematics and Ohio Flora	6
PBIO 321	Agricultural Plant Ecology	4
PBIO 322	Tropical Plant Ecology	4
PBIO 425	Plant Ecology	5
PBIO 426	Physiol. Plant Ecology	5
PBIO 475	Plant Speciation and Evolution	3

Area C

PBIO 307	Morphology of Algae and Bryophytes	6
PBIO 308	Morph. of Vascular Plants	6
PBIO 310	Biology of Fungi	5
PBIO 312	Plant Anatomy	5
PBIO 420	Phycology	5
PBIO 460	Paleobotany	6

Extradepartmental requirements

CHEM 121, 122, 123	Prin. of Chemistry	12
BIO5 171, 173	Intro to Zoology	6

One course from the following:

MATH 163A	Intro to Calculus	4
or MATH 263A	Calculus	4
MATH 250	Intro to Prob. and Stat.	4
C5 210	Programming in C	5
PSY 120	Elem. Statistical Reasoning	4

Requirements for the B.S. degree are a minimum of 50 credit hours in PBIO, including

PBIO 110, 111	Intro to Plant Biology	12
PBIO 404	Undergraduate Research	2-6
PBIO 415	Quantitative Methods in Plant Biology	5

A minimum of two courses from each of areas A, B, and C listed under B.A. requirements.

Additional courses to complete the 50 credit hour requirement are to be selected from areas A, B, or C, or from other PBIO courses with the exception of those courses not intended for plant biology majors.

Extradepartmental requirements:

CHEM 121, 122, 123	Princ. of Chemistry	12
CHEM 301, 302	Organic Chemistry	6
BIO5 171, 173	Intro to Zoology	6
PHYS 201, 202, 203	Intro to Physics	15
MATH 163A, 163B, or MATH 263A, 263B	Intro to Calculus	7
	Calculus	8
PSY 221	Statistics for Beh. Sci.	5

Plant Biology Minor

Minor code OR2111

Requirements for a minor in plant biology consist of a minimum of 28 credit hours of coursework in plant biology, including PBIO 110 and 111, and at least two courses at the 300 level or above.

Plant Biology—Cell Biology and Biotechnology Major (B.S.)

Special curriculum; major code BS2118

The Department of Environmental and Plant Biology offers this program for students who are interested in pursuing a profession in biotechnology or biology at the cellular or molecular level. It can provide you with a sound basis for a technical career or for graduate study with a view to a career in research or teaching.

Required PBIO courses

PBIO 110, 111	Intro to Plant Biology	12
PBIO 309	Plant Systematics and Ohio Flora	6
PBIO 312	Plant Anatomy	5
PBIO 331	Plant Genetics	5
PBIO 404	Undergraduate Research	2-6
PBIO 424	Plant Physiology	6
PBIO 431	Cell Biology	5
PBIO 450	Biotechnology and Genetic Engineering	4

At least one of the following

PBIO 412	Plant Pathology	5
PBIO 426	Physiol. Plant Ecology	5
PBIO 427	Molecular Genetics	3
PBIO 453	Develop. Physiology	4

Required nondepartmental courses:

CHEM 151, 152, 153	Fund. of Chemistry	15
CHEM 490, 491, 492	General Biochemistry	10
CHEM 303, 304, 305, 306, 307	Organic Chemistry, Lab	14
or CHEM 301, 302, 303, 304	Organic Chemistry, Lab	or 11
BIOS 171, 173	Intro to Zoology	6
MICR 311	Microbiology	6
PHYS 201, 202, 203	Intro to Physics	15
or PHYS 251, 252, 253	General Physics	
MATH 163A, B	Intro to Calculus	7
or MATH 263A, B	Calculus	or 8

Recommended departmental elective

PBIO 415	Quantitative Methods in Plant Biology	5
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Arts and Sciences degree requirements (including language), university General Education Requirements, and/or electives.

Plant Biology—Environmental Biology Major (B.S.)
Special curriculum; major code BS2113

This preprofessional program gives you a broad base for developing a career in environmental sciences, conservation, natural resources, forestry, environmental quality control, or ecology. Because a graduate degree may be required for entry into some positions, training beyond the bachelor's degree is strongly recommended. See also the environmental degree programs listed under the Departments of Biological Sciences, Chemistry, Geography, and Geological Sciences.

Required PBIO courses

PBIO 110, 111	Intro to Plant Biology	12
PBIO 309	Plant Systematics and Ohio Flora	6
PBIO 331	Plant Genetics	5
PBIO 404	Undergraduate Research	2-6
PBIO 415	Quantitative Methods	5
PBIO 425	Plant Ecology	5

Minimum of three courses from the following two areas, with at least one course in each area:

Area A

PBIO 248	Trees and Shrubs	4
PBIO 307	Morphology of Algae and Bryophytes	6
PBIO 308	Morphology of Vascular Plants	6
PBIO 310	Biology of Fungi	5
PBIO 312	Plant Anatomy	5
PBIO 420	Phycology	5

Area B

PBIO 247	Vegetation of N. America	4
PBIO 321	Agricultural Plant Ecology	4
PBIO 322	Tropical Plant Ecology	4
PBIO 410	Plants and Soil	4
PBIO 412	Plant Pathology	5
PBIO 424	Plant Physiology	6
PBIO 426	Physiological Plant Ecol	5
PBIO 475	Plant Speciation and Evolution	3

Required nondepartmental courses

CHEM 121, 122, 123	Princ. of Chemistry	12
CHEM 301, 302	Organic Chemistry	6
BIOS 171, 173	Intro to Zoology	6
BIOS 275	Animal Ecology	4
or any BIOS course of 4 credits or more at 300-400 level (see recommended electives below)		
GEOG 201	Environmental Geography	4
GEOL 101	Intro to Geology	5
GEOG or GEOL	one additional course of 4 credits or more	
MATH 163A or MATH 263A	Intro to Calculus	4
	Calculus	4
PHYS 201, 202	Intro to Physics	10
PSY 221	Stat. for Behavioral Sci.	5
BU5L 370	Environmental Law	4
or POLS 425	Environ. and Nat. Res. Politics and Policy	

Recommended electives

PBIO103	Plants and People	4
PBIO	additional courses from Areas A and B	
ECON 103	Prin. of Microeconomics	4
ECON 104	Prin. of Macroeconomics	4
ECON 313	Econ. of the Environment	4
MATH 163B	Intro to Calculus	3
BIOS 275	Animal Ecology	4
BIOS 430	Invertebrate Biology	6
BIOS 431	Limnology	5
BIOS 435	Entomology	6
BIOS 471	Ornithology	6
BIOS 474	Mammalogy	6
BIOS 477	Population Ecology	4
BIOS 481	Animal Conservation Biol	4

Arts and Sciences degree requirements (including language), university General Education Requirements, and/or electives.

Plant Biology—Field Biology Major (B.S.)
Special curriculum; major code BS2115

The program in field biology is designed to prepare you for employment as a park naturalist or in outdoor education and conservation. You will have to acquire additional background in physics, math, and chemistry to pursue advanced training in biology.

Required PBIO courses

PBIO 110, 111	Intro to Plant Biology	12
PBIO 247	Vegetation of N. America	4
PBIO 248	Trees and Shrubs	4
PBIO 309	Plant Systematics and Ohio Flora	6
PBIO 310	Biology of Fungi	5
PBIO 404	Undergraduate Research	2-6
PBIO 420	Phycology	5
PBIO 425	Plant Ecology	5

Additional PBIO courses from the following to make a total of at least 50 hours in plant biology

PBIO 103	Plants and People	4
PBIO 307	Morph. of Algae and Bryophytes	6
PBIO 308	Morph. of Vascular Plants	6
PBIO 312	Plant Anatomy	5
PBIO 321	Agricultural Plant Ecol.	4
PBIO 322	Tropical Plant Ecology	4
PBIO 331	Plant Genetics	5
PBIO 410	Plants and Soil	4
PBIO 412	Plant Pathology	5
PBIO 426	Physiol. Plant Ecology	5
PBIO 427	Molecular Genetics	3
PBIO 431	Cell Biology	5
PBIO 460	Paleobotany	6
PBIO 475	Plant Speciation and Evolution	3

Required nondepartmental courses

BIOS 171, 173	Intro to Zoology	6
BIOS 275	Animal Ecology	4
An additional 8 hours from BIOS or MICR courses numbered 200 or above		
CHEM 121, 122, 123	Prin. of Chemistry	12
GEOL 101	Intro to Geology	5
4 additional hours from GEOL		
8 hours in GEOG from the following:		
GEOG 201	Environmental Geog.	4
GEOG 260	Maps	4
GEOG 302	Meteorology	5
GEOG 303	Climatology	5
GEOG 353	Environmental Planning	4
GEOG 360	Cartography	5
GEOG 440	Environ. Impact Analysis	4
GEOG 494	Field Problems	4

It is recommended that PSY 120 be used to fulfill the Tier I quantitative skills requirement.

Arts and Sciences degree requirements (including language), university General Education Requirements, and/or electives

Environmental Studies Certificate Program

The field of environmental studies encompasses the complex interactions between humans, other organisms, and the biophysical environment. The Environmental Studies Certificate Program is open to students in any major program within the university who want to gain knowledge and understanding about the interdisciplinary field of environmental studies. Completion of this program, which is the equivalent of a minor, results in the awarding of a certificate and is officially recognized on your transcript upon graduation.

You can earn a certificate in environmental studies by completing 32–35 hours of approved coursework selected from the courses outlined below. Many certificate courses satisfy both Tier and Arts and Sciences requirements. Further, courses taken as part of an Arts and Sciences major will also count toward fulfilling the certificate. Be advised that some courses require prerequisites, and plan accordingly.

Core Requirements (8–9 hours)

GEOG 201	Environ. Geography	4
or GEOL 215	Environ. Geology	4
BIOS 220	Conserv. and Biodiversity	4
or BIOS 275	Animal Ecology	4
or PBIO 425	Plant Ecology	5

Quantitative Skills (4–5 hours)

Choose an approved course in statistics, such as

ECON 381	Intro to Econ. Statistics and Econometrics	4
GEOG 271	Intro to Stat. in Geog.	5
MATH 250	Intro to Prob. and Stat.	4
PBIO 415	Quantitative Methods	5
PE55 409	Tests and Measurements	4
POLS 483	SP55	4
PSY 221	Stat. for Behavioral Sci.	5

Natural Sciences (8–9 hours)

One chemistry course (any except CHEM 115)

One of the following:

BIOS 376	Field Ecology	4
BIOS 429	Marine Biology	5
BIOS 431	Limnology	5
BIOS 481	Animal Conservation Biol.	4
CE 452	Water and Wastewater Analysis	3
EH 260	Intro to Environmental Health and Safety	4
EH 312	Solid and Hazardous Waste Management	4
EH 440	Air Quality and Pollution Control	4
GEOG 302	Meteorology	5
GEOL 231	Water and Pollution	4
GEOL 330	Prin. of Geomorphology	5
GEOL 480	Hydrogeology I	4
MICR 211	Environ. Microbiology	4
PBIO 247	Vegetation of N. America	4
PBIO 426	Physiol. Plant Ecology	5

Social Sciences (12–13 hours)

POLS 425	Environ. and Natural Res. Politics and Policy	4
Two courses in two different departments from the following		
BUSL 370	Environmental Law	4
ECON 313	Econ. of the Environment	4
ECON 314	Natural Res. Economics	4
GEOG 241	Global Issues in Environ. Geography	4
GEOG 350	Land Use Planning	4
GEOG 440	Environ. Impact Analysis	4
GEOG 447	Resource Management	5
HIST 306	American Environ. History	4
POLS 426	Politics of Environ. Mvt.	4
SOC 340	Human Population Ecology	4

European Studies

See International Studies.

Foreign Languages and Literatures

See Classics or Modern Languages.

Foreign Service

See Economics, History, or Political Science, Pre-Foreign Service Major.

Forensic Chemistry

See Chemistry—Forensic Chemistry Major.

French

See Modern Languages.

Geography

Geography Major (B.S. or B.A.)

Major codes BS4231, BA4231

The requirements for a B.S. or B.A. in geography are

55 hours of approved geography courses, including:

GEOG 101	Physical Geography	5
GEOG 121	Human Geography	4
GEOG 271 or GEOG 471	Intro to Stat. in Geog. Quantitative Methods	5 4
GEOG 481	Senior Seminar	2

One regional course from the following:

GEOG 131	Third World	4
GEOG 132	Industrial World	4
GEOG 232	Geography of Ohio	4
GEOG 233	Geography of Appalachia	4
GEOG 234	Geog. of U.S. and Canada	4
GEOG 330	Geog. of Western Europe	4
GEOG 331	Geography of Africa I	4
GEOG 332	Geography of Africa II	4
GEOG 335	Latin America	4
GEOG 338	Southeast Asia	4

Two technique courses from the following:

GEOG 260	Maps	4
GEOG 360	Cartography	5
GEOG 361	Statistical Cartography	5
GEOG 365	Air Photo Interpretation	5
GEOG 466	Remote Sensing	5
GEOG 468	Automated Cartography	5
GEOG 476	Field Methods	5-9
GEOG 478	Geographic Info Systems	5

At least 30 hours at the 300 level or above.

Majors are not permitted to take geography and required courses pass/fail.

Geography Minor

Minor code OR4231

A minor in geography consists of a minimum of 28 hours including GEOG 101, 121, and at least three other courses at the 300 level or above.

Geography—Cartography Major (B.S. or B.A.) Special curricula; major codes BS4236, BA4236

Cartography, the art and science of mapmaking, is an integral part of geography. The spatial perceptions of geographers are translated into map form via various cartographic techniques.

This program addresses both the academic and technical aspects of cartography, leading to application and practical experience—the latter through a practicum and employment in the Ohio University Cartographic Center, an extension of the Cartography Program and the Department of Geography. The program stresses a strong background in geography, emphasizes cartography-related courses, and complements these courses with specific courses from related areas.

You must meet all requirements for a geography major with these additional specifications:

GEOG 260	Maps	4
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Minimum of 30 hours from:

GEOG 360	Cartography	5
GEOG 361	Statistical Cartography	5
GEOG 365	Air Photo Interpretation	5
GEOG 466	Remote Sensing	5
GEOG 468	Automated Cartography	5
GEOG 478	Geographic Info. Systems	5
GEOG 479	Adv. Geog. Info. Systems	5

Computer Science

Two approved CS or MIS courses above the 199 level 8-10

Mathematics

MATH 163A, B or MATH 263A, B	Intro to Calculus Calculus	7 8
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Geological Sciences

GEOL 101	Intro to Geology	5
GEOG 315	Landforms and Landscapes	5
or GEOL 330	Prin. of Geomorphology	5

Other requirements

CE 210	Plane Surveying	4
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Geography—Environmental Geography Major (B.S.) Special curriculum; major code BS4232

This program provides concentrated study of the earth's physical systems and human interactions with the environment. Environmental geography prepares students for careers in environmental planning, design, and restoration, as well as in environmental assessment and monitoring, resource management, natural areas preservation, and outdoor and environmental education. Students completing the program will develop competencies in a broad array of subjects spanning the natural and social sciences, as well as complementary analytical techniques. If you declare the Environmental Geography major, contact the Department as soon as possible so that you may be assigned an advisor.

You must meet all requirements for a geography major with these additional specifications:

GEOG 201	Environmental Geog.	4
GEOG 241	Global Issues	4

Three technique courses from the following:

GEOG 360	Cartography	5
GEOG 361	Statistical Cartography	5
GEOG 365	Air Photo Interpretation	5
GEOG 466	Remote Sensing	5
GEOG 468	Automated Cartography	5
GEOG 475	Analysis of Geog. Systems	4
GEOG 476	Field Methods	4
GEOG 478	Geographic Info. Systems	5
GEOG 479	Adv. Geog. Info. Systems	5

Hours over 300 must include five courses from this list:

GEOG 302	Meteorology	5
GEOG 303	Climatology	5
GEOG 315	Landforms and Landscapes	5
GEOG 316	Biogeography	4
GEOG 321	Population Geography	4
GEOG 344	Agricultural Ecosystems	4
GEOG 350	Land Use Planning	4
GEOG 353	Environmental Planning	4
GEOG 411	Adv. Physical Geography	4
GEOG 417	Landscape Ecology	4
GEOG 440	Environ. Impact Analysis	4
GEOG 447	Resource Management	4

General requirement

CHEM 121, 122, 123 or 151, 152, 153	Prin. of Chemistry	12
	Fund. of Chemistry	15
MATH 163A, B or 263A, B	Intro to Calculus	7
	Calculus	8

Choose at least 18 hours from the biological sciences or 13 hours from the earth sciences group below. Take at least 8 hours in one subject area and at least two different subject areas. This concurrently will satisfy the Arts and Sciences natural sciences degree requirement in biological sciences and partially satisfy the requirement in earth science.

Biological Sciences (18 hrs)

PBIO 102*	Plant Biology	5
PBIO 103	Plants and People	4
PBIO 110*	Intro to Plant Biology	6
PBIO 111*	Intro to Plant Biology	6
PBIO 247	Vegetation of N. Amer.	4
PBIO 248	Trees and Shrubs	4
PBIO 309	Plant Systematics and Ohio Flora	6

PBIO 321	Agricultural Plant Ecology	4
PBIO 322	Tropical Plant Ecology	4
PBIO 410	Plants and Soil	4
PBIO 411	Integrative Tropical Plant Biology	4
PBIO 425	Plant Ecology	5
PBIO 426	Physiol. Plant Ecology	5
MICR 211	Environ. Microbiology	3
MICR 212	Environ. Micro. Lab	2
BIOS 170,* 171, 172, 173	Intro to Zoology	14
BIOS 220	Cons. and Biodiversity	4
BIOS 275	Animal Ecology	4
BIOS 376	Field Ecology	4
BIOS 429	Marine Biology	5
BIOS 431	Limnology	5
BIOS 477	Population Ecology	4
BIOS 478	Community Ecology	4
BIOS 481	Animal Conserv. Biology	4

*Credit is not awarded for both PBIO 110 and BIOS 170. Credit is not awarded for both PBIO 102 and PBIO 111.

Earth Sciences (13 hrs)

GEOL 101	Intro to Geology	5
GEOL 211	Intro Oceanography	4
GEOL 215	Environmental Geology	4
GEOL 231	Water and Pollution	4
GEOL 312	Earth Materials and Resources	5
GEOL 330	Prin. of Geomorphology	5
GEOL 411	Mineral Deposits	4
GEOL 427	Water Geochemistry	4
GEOL 432	Origin and Classification of Soils	4
GEOL 471	Advanced Env. Geology	4
GEOL 480	Prin. of Hydrogeology	4
GEOL 481	Groundwater Flow Modeling	4
GEOL 483	Field Hydrology	6

To complete the natural sciences requirement, add at least one nongeology natural science course for a total of 18 hours in natural sciences.

Choose at least four courses (portion of Arts and Sciences social sciences requirement) from the following:

BUSL 255	Law and Society	4
BUSL 370	Environmental Law	4
ECON 103	Prin. of Microeconomics	4
ECON 104	Prin. of Macroeconomics	4
ECON 313	Econ. of the Environment	4
ECON 314	Natural Resources Econ.	4
HIST 306	American Env. History	4
HIST 333	Oil, Energy, and Intern't'l Diplomacy	4
PHIL 330	Environmental Ethics	5
POLS 425	Environ. and Natural Resource Politics and Policy	4
POLS 426	Pol. of the Env. Movement	4
POLS 488	Public Dispute Resolution	4
PSY 335	Environmental Psychology	5
SOC 340	Human Population Ecology	4

Complete the university General Education Requirements.

Geography—Environmental Prelaw (B.S.) Special curriculum; major code BS4237

The Geography—Environmental Prelaw Program is designed to prepare you for advanced study of environmental law. The goal of the program is to provide both a sound science background in environmental studies and a broad base of knowledge in the humanities and social sciences.

You must meet all requirements for a geography major with these additional specifications:

GEOG 201	Environ. Geography	4
GEOG 241	Global Issues	4
GEOG 260	Maps	5

Two technique courses from the following list:

GEOG 360	Cartography	5
GEOG 361	Statistical Cartography	5
GEOG 365	Air Photo Interpretation	5
GEOG 466	Remote Sensing	5
GEOG 468	Automated Cartography	5
GEOG 475	Analysis of Geog. Systems	4
GEOG 476	Field Methods	4
GEOG 478	Geographic Info Systems	5
GEOG 479	Adv. Geog. Info. Systems	5

Minimum 30 hours at the 300 level or above, including 5 courses from:

GEOG 302	Meteorology	5
GEOG 303	Climatology	5
GEOG 315	Landforms and Landscapes	5
GEOG 316	Biogeography	4
GEOG 321	Population Geography	4
GEOG 325	Political Geography	4
GEOG 344	Agricultural Ecosystems	4
GEOG 350	Land Use Planning	4
GEOG 353	Environmental Planning	4
GEOG 411	Adv. Physical Geography	4
GEOG 417	Landscape Ecology	4
GEOG 440	Environ. Impact Analysis	4
GEOG 447	Resource Management	5

Other Requirements

Courses that apply to university General Education or Arts and Sciences area requirements are noted as follows: Tier I (1J), Tier II (2A, 2H, 2N, 2S, 2C), A&S Area (Hum, SS, NS).

Humanities

Any 305J course (1J) PLUS any 3 courses from:

HIST 314A–F	Soc. and Cult. Hist. of U.S. (Hum)	4
INCO 103	Fund. of Public Speaking	4
INCO 351	Courtroom Rhetoric (Hum)	4
INCO 352	Political Rhetoric (Hum)	4
INCO 353	Contemp. Rhetoric (Hum)	4
PHIL 120	Principles of Reasoning	4
PHIL 130	Intro to Ethics (Hum, 2H)	4
PHIL 235	Business Ethics (Hum)	3
PHIL 240	Social & Political Philosophy (Hum, 2H)	4
PHIL 330	Ethics (Hum)	5
THAR 113	Acting Fundamentals I	4

Social Sciences

Any 4 courses from:

BUSL 255	Law & Society (SS)	4
BUSL 370*	Environmental Law (SS)	4
ECON 103	Microeconomics (2S, SS)	4
ECON 104	Macroeconomics (2S, SS)	4
ECON 313*	Econ. of the Environ. (SS)	4
ECON 314*	Nat. Res. Economics (SS)	4
HIST 212	U.S. 1828–1900 (2S, SS)	4
HIST 213	U.S. Since 1900 (2S, SS)	4
HIST 306	American Env. History	4
HIST 333	Oil, Energy and Int'l Diplomacy	4
HIST 391A	English Hist. to 1688 (SS)	4
HIST 391B	English Hist. Since 1688 (SS)	4
POLS 374	Great Jurists (SS)	4
POLS 401	American Const. Law (SS)	4
POLS 402	American Const. Law (SS)	4
POLS 404	Civil Liberties (SS)	4
POLS 409	Criminal Procedure (SS)	5
POLS 410	Public Policy Analysis (SS)	4
POLS 412	Pub. Personnel Admin. (SS)	4
POLS 413	Administrative Law (SS)	4
POLS 420	Women, Law, and Politics (SS)	4
POLS 425*	Environ. and Nat. Res. Politics and Policy (SS)	4
POLS 426	Politics of the Env. Mvmt	4
POLS 488	Public Dispute Resolution	4
PSY 335	Environmental Psychology	5

*strongly recommended

Natural Sciences

Any 4 courses from Environmental and Plant Biology (except PBIO 217) (NS) and/or Geology (NS).

General Requirements

CHEM 121, 122, 123 or CHEM 151, 152, 153	Prin. of Chemistry (2N) Fund. of Chemistry (2N)	12 15
MATH 163A, B or MATH 263A, B	Intro to Calculus (2N) Calculus (2N)	7 8

Geography—Geographic Information Systems Major (B.S.)

Special curriculum; major code BS4235

The goal of the geographic information systems program is to provide a technical background for geographers interested in working with business, government, or planning agencies. The emphasis of the program is first, to develop a strong background in the field of geographic information systems as practiced in the fields of cartography, remote sensing, and quantitative methods; and second, to develop cognate skills in the fields of computer science, economics, mathematics, and public administration.

You must meet all requirements for a geography major with these additional specifications:

Map Analysis Sequence

GEOG 260	Maps	4
GEOG 360	Cartography	5
GEOG 361	Statistical Cartography	5
or GEOG 365	Air Photo Interpretation	5
or GEOG 468	Automated Cartography	5

Statistical Analysis Sequence

GEOG 271	Intro to Statistics in Geog.	5
GEOG 471	Quantitative Methods	4

Digital Analysis Sequence

GEOG 466	Remote Sensing	5
GEOG 478	Geographic Info. Systems	5
GEOG 479	Adv. Geog. Info Systems	5

Application Support Sequence

Two planning/management courses from the following:

GEOG 350	Land Use Planning	4
GEOG 440	Env. Impact Analysis	4
GEOG 447	Resource Management	4
GEOG 455	Evolution of Planning	4
GEOG 475	Analysis of Geog. Systems	4
GEOG 476	Field Methods	4

or

Two systemic specialization courses from the following:

GEOG 303	Climatology	5
GEOG 315	Landforms and Landscapes	5
GEOG 316	Biogeography	4
GEOG 321	Population Geography	4
GEOG 324	Industrial Geography	4
GEOG 326	Urban Geography	4
GEOG 417	Landscape Ecology	4

Recommended Electives

CS 120	Computer Literacy	4
CS 220	Intro to Computing	5
CS 230	Computer Programming I	5
MATH 113	Algebra	5
MATH 163A, B	Intro to Calculus	7
MATH 211	Elementary Linear Algebra	4

Geography—Premeteorology Major (B.S.)
Special curriculum; major code BS4233

The following interdisciplinary program in the Departments of Geography, Mathematics, and Physics can prepare you for graduate training in meteorology, climatology, and atmospheric physics. The program can be taken with an emphasis in geography, mathematics, or physics (see departmental listings in this section). If you choose the geography emphasis, contact the Department of Geography for advising.

Freshman

CHEM 151	Fund. of Chemistry	5
CHEM 152	Fund. of Chemistry	5
GEOG 101	Physical Geography	5
GEOL 101	Intro to Geology	5
MATH 263A, B, C	Calculus (or advanced placement)	12
	English Composition	5

Sophomore

GEOG 201	Environ. Geography	4
GEOL 211	Oceanography	4
MATH 263D	Calculus	4
MATH 340	Differential Equations	4
MATH 440	Vector Analysis	4
MATH 441	Fourier Series and Partial Diff. Equations	4
PHYS 251, 252, 253	General Physics	15

Junior

GEOG 302	Meteorology	5
GEOG 303	Climatology	5
GEOG 304	Observ. in Meteorology	2
GEOG 305	Pract. in Meteorological Forecasting	2-10
PHYS 311, 312	Mechanics	8
	English Composition	4
PHYS 411	Thermodynamics	4

Senior

Two courses in computer programming or quantitative methods (see advisor for approved list)

GEOG 406	Intro to Synoptic Meteorology	5
GEOG 407	Adv. Synoptic Meteorology	5

Geography emphasis requirements

GEOG 121	Human Geography	4
GEOG 315	Landforms and Landscape	5
or GEOG 316	Biogeography	4
or GEOG 411	Adv. Physical Geography	4
GEOG 260	Maps	4
or GEOG 360	Cartography	5
or GEOG 365	Air Photo Interpretation	5

Arts and Sciences degree requirements, university General Education Requirements, and/or electives.

Geography/Meteorology Minor
Minor code OR4233

A minor in meteorology consists of a minimum of 28 hours including GEOG 101, 121, 302, 304, 305, 406, 407.

Geography—Urban Planning Major (B.A. or B.S.)
Special curricula; major codes BA4234, BS4234

These special curricula are designed to provide some of the basic academic requirements for a career in urban planning in the United States. While working toward a conventional B.A. or B.S. in geography, you will take certain required courses and select from an approved list of electives (both inside and outside the Department of Geography) that emphasize legal, social, political, and historical aspects of the planning profession. These courses simultaneously fulfill some of the department and college requirements. The distinctiveness of the curriculum comes from the direction you are given and the preselection of courses in which you may enroll; these elements separate the special curriculum from the general geography program. To enroll in the preparation for urban and regional planning major, contact the chair of the Department of Geography as soon as possible, preferably not later than the beginning of your sophomore year.

The majority of job opportunities for planners are with government agencies at the local, state, and federal levels. Their activities largely concern administration and implementation of federal programs, and continued funding depends upon congress. While a bachelor's degree can provide initial entry into the profession, job descriptions usually specify a master's degree. It is recommended that you continue toward such a degree, which involves an additional two years of study and is offered by more than 70 American universities.

You must meet all requirements for a geography major with these additional specifications:

Hours over 300 must include:

GEOG 326	Urban Geography	4
GEOG 350	Land Use Planning	4
GEOG 353	Environmental Planning	4
GEOG 455	Evolution of Planning	4

Choice of two technique courses from the following:

GEOG 360	Cartography	5
GEOG 361	Statistical Geography	5
GEOG 365	Air Photo Interpretation	5
GEOG 466	Remote Sensing	5
GEOG 468	Automated Cartography	5
GEOG 478	Geographic Info. Systems	5

Three of the following:

GEOL 101	Intro to Geology	5
GEOL 231	Water and Pollution	4
GEOG 315 or GEOL 330	Landforms and Landscapes Prin. of Geomorphology	5
GEOG 316	Biogeography	4
GEOG 417	Landscape Ecology	4

Other Departments (16 hrs)

Except for MGT 202, these courses currently fulfill the social sciences area requirement of the College of Arts and Sciences.

ECON 103 or ECON 303	Prin. of Microeconomics Microeconomics	4
ECON 104 or ECON 304	Prin. of Macroeconomics Macroeconomics	4
MGT 202	Management	4
POLS 320	Urban Politics	4
SOC 424	Urban Sociology	4

*Work with your advisor to develop a plan that meets university General Education Requirements.

Electives

Try to take the remaining credit hours necessary for graduation from the following:

BUSL 370	Environmental Law	4
BUSL 442	Law of Property and Real Estate	4
ECON 213	Current Economic Prob.	4
ECON 303	Microeconomics	4
ECON 304	Macroeconomics	4
ECON 360	Money and Banking	4
HIST 317A	Ohio History to 1851	4
HIST 317B	Ohio History Since 1851	4
POLS 101	American Nat. Govt.	4
POLS 102	Issues in Amer. Politics	4
POLS 210	Princ. of Public Admin	4
POLS 408	Urban Public Admin.	4
POLS 410	Public Policy Analysis	4

POLS 424	Intergovernmental Relations in the U.S.	4
POLS 425	Environ. and Natural Resource Politics and Policy	4
PSY 335	Environmental Psych.	5
SOC 101	Intro to Sociology	5
SOC 201	Contemp. Social Problems	4
SOC 230	Sociology of Poverty	4
SOC 425	Sociology of Aging	4
SW 101	Intro to Social Welfare and Social Work	3
SW 290	Social Welfare as an Inst.	4
SW 395	Aging in the Welfare State	4

Outside the College of Arts and Sciences

EH 310	Water Supply and Waste-water Environ. Health Practice	4
EH 312	Solid and Hazardous Waste Management	4
EH 320	Shelter Environments	4
HREC 310	Prog. Planning and Facil. for Recreation	5
INCO 205	Group Discussions	4
INCO 304	Prin. and Tech. of Interviewing	4
REAL 101	Real Estate Prin. and Prac.	4
REAL 201	Real Estate Appraising	4
REAL 204	Real Estate Finance	4

Additional coursework in civil engineering (415, 451, 452), plant sciences (101, 101H, 102, 103, 311), microbiology (211, 212), biological sciences (390H), and economics is recommended in the senior year.

Geological Sciences

Geological Sciences Major (B.S.)

Major code BS3321

Required courses for the B.S. degree in minimum preparation for a professional career in geological sciences or entry into graduate school are

GEOL 101	Intro to Geology	5
GEOL 205	Statistical Methods	4
GEOL 255	Historical Geology	4
GEOL 315	Mineralogy	5
GEOL 320	Rocks	3
GEOL 330	Prin. of Geomorphology	5
GEOL 340	Prin. of Invertebrate Paleontology	4
GEOL 350	Stratigraphy-Sedimentology	4
GEOL 360	Structural Geology	5
GEOL 413	Optical Mineralogy	4
GEOL 422	Igneous and Metamorphic Petrology/Petrography	4
GEOL 424	Sedimentary Petrology/Petrography	3
GEOL 446	Earth Systems Evolution	4
GEOL 466	Geodynamics	4

Approved field course

At least two additional 400-level courses

Extrdepartmental requirements

CHEM 151, 152, 153	Fund. of Chemistry	15
CS 230	Computer Programming I	5
MATH 263A, B	Calculus	8
PHYS 201, 202*	Intro to Physics	10
or 251, 252, 253	General Physics	15

*Discuss the selection of an appropriate physics sequence with your advisor. PHYS 203 may be required for some graduate programs.

Geological Sciences Major (B.A.)**Major code BA3321**

Requirements for the B.A. degree are designed for students interested in applying a general understanding of the geological sciences to such fields as education, library science, technical writing, or other areas where a general knowledge of earth science is desired. They include

GEOL 101	Intro to Geology	5
GEOL 255	Historical Geology	4
GEOL 315	Mineralogy	5
GEOL 320	Rocks	3
GEOL 330	Prin. of Geomorphology	5
GEOL 340	Prin. of Invertebrate Paleontology	4
GEOL 350	Stratigraphy-Sedimentol.	4
GEOL 360	Structural Geology	5
GEOL 466	Geodynamics	4

at least two additional courses at the 400 level

Extrdepartmental requirements

CHEM 121, 122	Prin. of Chemistry	8
PHYS 201	Intro to Physics	5
MATH 115	Precalculus	5

Consult the departmental undergraduate advisor regarding appropriate minors to be combined with the B.A. degree.

Geological Sciences Minor**Minor code OR3321**

A minor in geological sciences requires a minimum of 25 hours of coursework in geological sciences to include 101, 255, and a minimum of three courses at the 300-400 level.

Geological Sciences—Environmental Geology Major (B.S.)
Special curriculum; major code BS3323

The preprofessional program in environmental geology is designed to provide you with broad training in preparation for a career in conservation, natural resource management, land-use planning, or environmental quality control. In most instances, you should anticipate further training at the graduate level. Consult with the undergraduate advisor in the Department of Geological Sciences before planning your schedule of coursework.

The courses listed below constitute the departmental requirements for this program. Schedule additional courses to fulfill Arts and Sciences and university General Education Requirements.

Major courses

GEOL 101	Intro. to Geology	5
GEOL 205	Statistical Methods	4

GEOL 255	Historical Geology	4
GEOL 315	Mineralogy	5
GEOL 320	Rocks	3
GEOL 330	Prin. of Geomorphology	5
GEOL 350	Stratigraphy-Sedimentology	4
GEOL 360	Structural Geology	5
GEOL 427	Water Geochemistry	4
GEOL 480	Principles of Hydrogeology	4
An approved field course		

Natural science courses

BIOS 220	Conserv. and Biodiversity	4
CHEM 151,152,153	Fund. of Chemistry	15
CHEM 301,302	Organic Chemistry	6
MATH 263A, 263B	Calculus	8
MICR 211, 212	Environ. Microbiology	6
PHYS 201, 202	Intro to Physics	10
or PHYS 251, 252, 253	General Physics	or 15

Social Science courses

BUSL 370	Environmental Law	4
ECON 313	Econ. of the Environment	4
or ECON 314	Nat. Resources Economics	
GEOG 478	Geog. Info. Systems	5

Tool (methods) course

CS 230	Computer Programming I	5
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A minimum of two courses from the following list:**Natural Sciences**

8IOS 376	Field Ecology	4
BIOS 431	Limnology	5
CHEM 325	Instr. Methods of Analysis	4
CHEM 431	Chemical Sep. Methods	3
CHEM 432	Chem. Instrumentation and Electrochemistry	3
CHEM 433	Spectrochemical Analysis	3
GEOG 302	Meteorology	5
GEOG 303	Climatology	5
GEOL 432	Orig. and Class. of Soils	4
GEOL 434	Intro to Remote Sensing	4
GEOL 481	Groundwater Flow Modeling	4
GEOL 484	Subsurface Methods	4
GEOL 485	Intro to Appl. Geophysics	4
PBIO 410	Plants and Soils	4
PBIO 425	Plant Ecology	5

Social Science

ECON 313	Econ. of the Environment	4
ECON 314	Nat. Resources Economics	4
ECON 335	Economics of Energy	4
GEOG 350	Land Use Planning	4
GEOG 353	Environmental Planning	4
GEOG 365	Remote Sensing	5
GEOG 440	Environ. Impact Analysis	4
GEOG 447	Resource Management	5
GEOG 475	Analysis of Geog. Systems	4
GEOG 479	Adv. Geographic Information Systems	5
POLS 425	Environ. and Natural Res. Politics and Policy	4

Geological Sciences—Water Resources Major (B.S.) Special curriculum; major code B53322

This curriculum is recommended for students who wish to specialize in the investigation of surface water and ground-water supplies. You will major in geology as a B.S. degree candidate and take additional coursework in mathematics, chemistry, and physics. Graduates are qualified to seek professional employment in hydrogeology or to enter graduate school. Enter the program as a freshman to complete the required curriculum in four years.

Freshman

CHEM 151, 152, 153	Fund. of Chemistry	15
CS 230	Computer Programming I	5
GEOL 101	Intro to Geology	5
GEOL 255	Historical Geology	4
MATH 263 A, B, C, D	Calculus	16
	English Composition	5

Arts and Sciences degree requirements (including language), university General Education Requirements, and/or electives.

Sophomore

GEOL 205	Statistical Methods	4
GEOL 315	Mineralogy	5
GEOL 320	Rocks	3
GEOL 330	Prin. of Geomorphology	5
GEOL 350	Stratigraphy-5dmtlgy.	4
MATH 340	Differential Equations	4
PHYS 251, 252, 253	General Physics	15

Arts and Sciences degree requirements (including language), university General Education Requirements, and/or electives.

Junior

ENG 305J	Technical Writing	4
GEOL 360	Structural Geology	5
GEOL 480	Principles of Hydrogeology	4
GEOL 481	Groundwater Flow Modeling	4
GEOL 483	Field Hydrology	6
(to be taken during the summer following the third or fourth year)		
MICR 211	Environmental Microbiology	4
MICR 212	Environmental Microbiology Lab	2

Arts and Sciences degree requirements (including language), university General Education Requirements, and/or electives.

Senior

CHEM 301	Organic Chemistry	3
CHEM 302	Organic Chemistry	3
GEOL 482	Transport Processes in Groundwater	4
GEOL 484	Subsurface Methods	4

Arts and Sciences degree requirements (including language), university General Education Requirements, and/or electives.

German

See Modern Languages.

Gerontology Certificate Program

The Colleges of Arts and Sciences and Health and Human Services jointly sponsor the undergraduate Gerontology Certificate Program for students in any major program within the university who want to gain knowledge and skills for a career in working with the elderly. Completion of this program is officially recognized on your transcript upon graduation.

See the College of Health and Human Services section for Gerontology Certificate Program requirements.

Greek

See Classics.

History

History Major (B.A.) Major code BA4211

The major requirement for the B.A. degree consists of a minimum of 52 hours. Unless partly fulfilled as a result of taking a placement test, this total includes:

131	Intro to Non-Western Hist.	4
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8 hours from the following:

101	Western Civ. in Modern Times	4
102	Western Civ. in Modern Times	4
103	Western Civ. in Modern Times	4
121	Western Heritage: Classical	4
122	Western Heritage: Medieval	4
123	Western Heritage: Modernity	4

8 hours from the following:

211	Hist. of U.S. to 1828	4
212	Hist. of U.S. 1828-1900	4
213	Hist. of U.S. Since 1900	4

32 hours at the 300-400 level, including

301J	Historical Research and Writing	4
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Two courses in United States history

Two courses in European history

Two courses from the following fields:

The ancient world
Africa
Asia
Latin America
Canada
The Middle East

The 100-level should be taken during your freshman year and the 200-level during your sophomore year. Unless otherwise stated, the prerequisite for 300-level courses is sophomore standing and the prerequisite for 400-level courses is junior or senior rank. Courses in economics, geography, political science, statistics, and sociology and anthropology are suggested as electives. Completion of these requirements fulfills the Arts and Sciences requirement of at least 9 hours in the major at the junior-senior level.

History Minor **Minor code OR4211**

A minor in history consists of a minimum of 28 hours, including at least 8 hours at the 100–200 level and at least 16 hours at the 300–400 level, in an academically cohesive program that you will plan in consultation with a history faculty advisor.

History Pre-Foreign Service Major (B.A.) **Special curriculum; major code BA4212**

To prepare for the annual foreign service officer examinations, you are advised to acquire as broad an education as possible. Facility in written and spoken English; competency in a foreign language; and a good background in economics, history, political science, business, or public administration are essential. A pre-foreign service major is available through the Departments of Economics, History, or Political Science. You can obtain detailed information about foreign service officer examinations, including sample questions from previous examinations, from these departments.

History—Prelaw (B.A.) **Special curriculum; major code BA4214**

If you are in the College of Arts and Sciences and plan to enter law school, complete the specific requirements for the Bachelor of Arts degree. No special curriculum is prescribed. As a prelaw major, you may complete a major of your principal interest. The Departments of Economics, English, History, Philosophy, Political Science, and Sociology have designated prelaw advisors. For further information, see Law in this section.

History—Pretheology Major (B.A.) **Special curriculum; major code BA4213**

If you plan to enter a theological seminary or to do graduate study in religion, it is recommended that you take a broad program of undergraduate courses, including the following (with minimum credit suggested in each area): philosophy (12); courses on the texts and history of religions (15); English composition and literature, and world literature (21); history, including HIST 354, 356C, and 370 (15); social sciences (21); foreign languages (18); natural sciences (9); public speaking (3). Arrange your program to meet the requirements of the B.A. degree and the university General Education Requirements. It is advisable to major in philosophy, English, or one of the social sciences. Check the entrance requirements of the theological seminaries, other religious educational institutions, or graduate schools of your choice and plan your curriculum accordingly. A pretheology major also is available from the Departments of History and Philosophy.

International Studies

For additional information on International Studies, see the Center for International Studies section.

The Bachelor of Arts in International Studies (BAIS) seeks to develop international competence, which involves understanding other peoples and societies well enough to be able to work effectively with them on a broad range of common problems. It calls for the education and training of persons who are proficient in a language other than their own and who are able to understand the history, culture, goals, aspirations and worldview of the people speaking that language.

The program of study leading to the Bachelor of Arts in International Studies aims to provide students with the skills to interact competently with people from other cultures through the development of: (a) *cross cultural literacy* - the direct experience of another culture via a study abroad experience, the achievement of a high level of proficiency in a second language, and the ability to compare and contrast issues in different regions and cultures of the world; (b) *environmental literacy* - a cross-cultural perspective on global issues of human interaction with the natural environment; (c) *regional specialization* - the study of a world region outside the United States (Africa, Asia, Europe, Latin America) in depth through its history, geography, politics, societies, economics, fine and performing arts, and popular culture with special attention to the issues of gender, class, ethnicity, and race; and (d) *critical thinking* - expressed both in writing and orally in English and also in a second language.

Throughout this program of study, students are also expected to develop information processing skills which enable them to seek, sort, analyze and evaluate information as well as apply information to the solution of problems.

Requirements for the Undergraduate Major in International Studies

The Bachelor of Arts in International Studies is an interdisciplinary major within the College of Arts and Sciences, and requires the completion of all Arts and Sciences College requirements. The major consists of a minimum of 61 quarter hours of course work, including 33 hours in courses of a broad cross-cultural or international nature and 28 hours on a single world region. In addition, it is strongly recommended that during the freshman year students enroll in Anthropology 101, in a section which is linked with a section of English 153. Students entering the BAIS program after the freshman year or as transfer students must take Anthropology 101 as soon as possible and participate in the discussion group for BAIS majors.

A quarterly colloquium for all BAIS majors provides opportunities to discuss current affairs, attend special lectures and cultural events, and gather information on study abroad, graduate school, and career opportunities. In addition, it is possible that most Arts and Sciences courses taken to satisfy the area requirements can satisfy the Tier II requirements.

Language Requirement

To graduate with a Bachelor of Arts in International Studies, students must demonstrate proficiency in reading, speaking, and in some cases, writing a language related to their area of concentration. At least one quarter prior to graduation, students must take an oral proficiency examination and attain the level specified for that language. To gain proficiency, students may use any combination of course work at Ohio University, intensive summer language institutes, or study abroad in a country where the language is spoken.

Acceptable languages are Swahili, Arabic, or French for Africa; Chinese, Indonesian, or Japanese for Asia; French, German, Italian*, Russian, or Spanish for Europe; and Spanish for Latin America. You may petition the BAIS committee to receive approval to use languages other than those listed above to satisfy the language requirement.

**Approval of Italian as a second language will require significant study beyond that which is currently offered at Ohio University*

Education Abroad Requirement

Students majoring in International Studies are required to have a minimum of one quarter of education abroad in the area of the world in which they are concentrating and in which their second language is spoken. Study abroad is designed in consultation with the academic advisor and planned as an integral part of the program. The primary goals of education abroad are to increase language competency and to gain exposure to the culture of the world region on which the student is concentrating. It is strongly recommended that students study abroad after completing the equivalent of at least two years of language study. Programs which offer the maximum opportunity to function independently and solve problems in the host culture are preferred.*

*In rare cases, the study abroad experience may be waived due to prior experience, financial exigencies, etc. In some cases an internship with an international organization or an independent research project in which your second language is utilized may be substituted for the education abroad. Waiving or substitution of the requirement may be done only by the BAIS Committee upon petition to your academic advisor.

General Arts and Sciences Requirements

As a major in the College of Arts and Sciences, you must satisfy all College distribution requirements including 18 hours of humanities, 18 hours of social sciences, and 18 hours of natural science and mathematics. Courses which satisfy major credit may not be utilized to satisfy these distribution requirements.

International Studies (33 hrs)

ANTH 101	Cultural Anthropology	5
POLS 250	International Relations	4

**Comparative/International Studies (12 hrs)
(Select one thematic 3-course sequence.)**

a. Comparative Institutions and Ideologies		
POLS 230	Comparative Politics	4
POLS 340	Politics of Developing Areas	4
POLS 490Q	Nationalism	4

b. Comparative Cultures (choose any three)

ANTH 345	Gender in Cross Cultural Perspectives	4
ANTH 350	Economic Anthropology	4
ANTH 351	Political Anthropology	4
ANTH 357	Anthropology of Religion	4
ANTH 376	Culture Contact and Change	4
GEOG 329	Geography of Language and Religion	4

c. Communication (choose any three)

INCO 410	Cross Cultural Communication	4
LING 270	Nature of Language	5
LING 275	Introduction to Language and Culture	4
JOUR 466	International Mass Media	4
TCOM 367	World Broadcasting	4

d. Business

BA 385	Multinational Business	4
BU5L 385	International Business Law	4
MGT 484	International Comparative Management	4

e. Political Economy (choose any three)

ANTH 350	Economic Anthropology	4
ANTH 376	Culture Contact and Change	4
ECON 342	International Economic Policy	4
ECON 350	Economic Development	4
GEOG 220	Economic Geography	4
POLS 340	International Mass Media	4
POLS 490K	International Political Economy	4

f. International Relations (choose any three)

A&S 369	International Peace	4
GEOG 325	Political Geography	4
HIST 374B	History of International Diplomacy, 1914-1939	4
HIST 374C	History of International Diplomacy, 1939-present	4
POLS 455	International Law	4
POLS 456	International Organizations	4
POLS 490	Causes of War	4

Environmental Literacy (12 hrs)**(Select three courses from one group)****a. Ecology - Conservation Biology (choose any three)**

BIO5 220	Conservation and Biodiversity	4
BIO5 275	Animal Ecology	4
GEOG 417	Landscape Ecology	4
PBIO 322	Tropical Plant Ecology	4
PBIO 411	Integrative Tropical Plant Ecology	4
PBIO 425	Plant Ecology	5

b. Ecology of Disease (choose any three)

ANTH 378	Human Ecology	4
MICR 211	Basic Microbiology	4
MICR 212	Environmental Microbiology Lab	2
MICR 418	Epidemiology	4
MICR 444	Tropical Disease Ecology	4

c. Earth - Biogeography		
BIOS/GEOG 36	Biogeography	4
PBIO 247	Vegetation of North America	4
PBIO 425	Plant Ecology	4

d. Water, Land and the Oceans (choose any three)		
GEOG 201	Environmental Geography	4
GEOL 211	Introduction to Oceanography	4
GEOL 215	Environmental Geology	4
GEOL 231	Water and Pollution	4
GEOL 303	Marine and Tropical Field Studies	1-6
GEOL 330	Principles of Geomorphology	5
GEOG 315	Landforms and Landscapes	5
GEOG 417	Landscape Ecology	4

e. Environment and Society (choose any three)		
ANTH 378	Human Ecology	4
GEOG 241	Global Environmental Issues	4
GEOG 321	Population Geography	4
GEOG 344	Agricultural Ecosystems	4
GEOG 353	Environmental Planning	4
ECON 313	Economics of the Environment	4
ECON 314	Natural Resource Economics	4
ECON 335	Economics of Energy	4
PBIO 321	Agricultural Plant Ecology	4

Area Studies (28 hrs)*

Options: Africa, Asia, Europe, Latin America.

*Special Studies, experimental courses, and seminars with an international character not listed may be taken with the approval of the student's advisor. Courses must be taken in at least three departments.

Africa (B.A.) Special curriculum; major code BA4405

Select 28 hours in a minimum of three disciplines

AH 332	West African Art	4
AH 333	Central African Art	4
ANTH 381	Cultures of Sub-Saharan Africa	4
ECON 455	African Econ. Dev.	4
ENG 470	Special Studies (if topic is African Literature)	4
GEOG 331	Geography of Africa I	4
GEOG 332	Geography of Africa II	4
HIST 341A/B/C	Early, Trad., Mod. Africa	4
HIST 336 A/B	North Africa	4
HIST 338	History of West Africa	4
HIST 338A	History of East Africa	4
HIST 342A/B	South Africa	4
INST 113*	Modern Africa	4
PHIL 372	Islam	4
PHIL 478	African Philosophy	5
POLS 441	Govt. and Politics of Africa	5
POLS 463	The U.S. and Africa	5
POLS 490B	Gender and Political Development in Africa	3-5
POLS 490C	The OAU and Africa	5

*Required Course

Asia (B.A.) Special curriculum; major code BA4406

Select 28 hours in a minimum of three disciplines.

AH 330	Arts of the Orient	4
ANTH 385	Cultures of SE Asia	4
ANTH 386	Problems in Southeast Asian Anthropology	4
ECON 473	Economics of SE Asia	4
GEOG 338	Southeast Asia	4
HIST 246	The Rise of Modern Asia	4
HIST 344A	History of Malay World	4
HIST 344B	Hist of Burma and Thailand	4
HIST 344C	History of Vietnam	4
HIST 348A	Traditional Japan	4
HIST 348B	Modern Japan	4
HIST 345A/B/C	Southeast Asian History	4
HIST 346A	Traditional China	4
HIST 346B	Modern China	4
INDO 340	Traditional Lit of SE Asia	3
INDO 345	Modern Lit of SE Asia	3
INST 103*	Modern Asia (2C)	5
INST 350	Focus on Malaysia	5
INST 490	Tun Razak Seminar	5
PHIL 370	Hinduism	4
PHIL 371	Buddhism (2C)	4
PHIL 372	Islam (2C)	4
PHIL 475	Chinese Philosophy	5
POLS 445	Govt. and Politics of Japan	4
POLS 446	Govt. and Politics of China	4
POLS 447A/B	Govt. and Pol. of SE Asia	4
POLS 490A	East Asia and World Politics	4
POLS 490S	Japanese Foreign Policy	4

*Required

Europe (B.A.) Special curriculum; major code BA 4407

Select 28 hours in a minimum of three disciplines

AH 327	Art of the 19th Century	4
AH 328	Modern Art	4
ECON 353	European Economic Hist.	4
FL 334**	Portuguese and Brazilian Lit in English (when topic is literature from Portugal)	4
FL 335**	Italian Literature in English	4
FL 336**	Spanish Lit in English (when topic is lit. from Spain)	4
FL 337**	French Lit. in English	4
FL 338A/B**	German Lit. in English	4
FL 339A/B**	Russian Lit. in English	4
FR 345	French for Business	4
FR 348/9	French Civ. and Culture	4
FR 354	Intro to Reading French Lit.	4
FR 429/31/33	20th Century French Lit.	4
FR 434	French Through Film	4
FR 435	Proseminar (depending on content)	1-4
GEOG 330	West European Geography	4
GER 345	Business German	4
GER 348/9	German Civ. and Culture	4
GER 355/6	Intro to German Lit.	4
GER 429/30/31	20th Century German Lit.	4

GER 439	Grammatical Structure	4	HIST 325	History of U.S.-Latin American Relations	4
GER 441	Stylistics	4	HIST 426	Dictatorships in Lat. Amer.	4
HIST 265A	Hitler and the Nazis	4	HIST 427	Studies in Recent Lat Amer History	4
HIST 360	Women in European History	4	INST 121*	Survey of Latin America	4
HIST 362A/B	Europe 1814-1914	4	POLS 434	Government and Politics of Latin America	4
HIST 364A	Europe Between the Wars	3	POLS 435	Revolt. in Latin America	4
HIST 364B	Contemporary Europe	4	POLS 436	Politics of Brazil	4
HIST 366A/B	France	4	POLS 479	Latin American Political Thought	4
HIST 368A/B	Germany	4	SOC 408	Latin American Society	4
HIST 372A/B/C	History of the Balkans	4	SPAN 345	Business Spanish	4
HIST 374A	Balance of Power	4	SPAN 349	Spanish American Civ. and Culture (2C)	4
HIST 374B/C	History of Int'l Diplomacy	4	SPAN 350X	Mexican Civ and Culture	4
HIST 375	World War I	4	SPAN 351X	Mayan Civ and Culture	4
HIST 377	Holocaust	4	SPAN 352X	Yucatecan Civilization	4
HIST 382A	History of Russia	4	SPAN 435	Proseminar (if theme is Latin America)	4
HIST 382B	Russia: Road to Revolution	4	SPAN 439	Modern Spanish Usage	4
HIST 382C	Soviet Union	4	SPAN 441	Stylistics	4
HIST 382D	The USSR in World War II	4	SPAN 443/4	Survey of Spanish-Amer Lit	4
HIST 483	Russian and Soviet History	4	SPAN 447	Themes from Spanish Amer Prose	4
INST 118*	European Studies (25)	4	SPAN 448	Cont Spanish Amer Lit	4
ITAL 348/9	Italian Civ. and Culture	4			
ITAL 355/6	Intro to Italian Lit	4			
PHIL 444	Philosophy of Marxism	5			
PHIL 458	Cont European Philosophy	5			
POLS 331	Politics in Western Europe	4			
POLS 333	Politics in Soviet Union	4			
POLS 433	Russian Foreign Policy	4			
POLS 438	Govt. and Pol. of Germany	4			
POLS 439	Govt. and Pol. of France	4			
POLS 490L	European Integration	3-5			
RUS 348/9	Cultural Hist. of Russia	4			
RUS 355/6	Intro to Russian Literature	4			
RUS 429	Russian Lit of the Soviet Era	4			
RUS 435	Study Abroad - Moscow	1-4			
RUS 441	Stylistics	4			
SPAN 345	Business Spanish	4			
SPAN 347	Civ and Culture of Spain	4			
SPAN 354/5/6	Intro to Spanish Lit	4			
SPAN 432	20th Cent. Spanish Lit	4			
SPAN 439	Modern Spanish Usage	4			
SPAN 441	Stylistics	4			

*Required course

**Students may only receive major credit for international literatures in English classes taken in the literature of a language other than the one in which they plan to demonstrate proficiency.

Latin America (B.A.)

Special curriculum; major code BA 4408

Select 28 hours in a minimum of three disciplines.

AH 331	Pre-Columbian Art	4
ANTH 367	South American Prehistory	4
ANTH 383	Cultures of Latin America	4
ECON 474	Econ. of Latin America	4
FL 334**	Portuguese or Brazilian Lit in English (when topic is Brazilian literature)	4
GEOG 335	Geog. of Latin America	4
HIST 323A/B/C	Latin American Hist.	4

Related Minors and Certificates

Language, any Arts and Sciences discipline, Basic and Applied Nutrition, Business, Certificate in Political Communication, Certificate in Environmental Studies, Interpersonal Communication, Telecommunications.

International Studies Certificate Program

The Center offers certificates in African, Asian, European, and Latin American Studies for students who wish to add an international dimension to their major, or who are interested in an international career or graduate work in area studies. The certificate is noted on your transcript upon graduation.

You must take an introductory interdisciplinary area studies course (INST 103, 113, 118, or 121) appropriate to the certificate you are pursuing. Additional requirements for the European or Latin American Certificate are (1) six courses relating to Europe or Latin America in a minimum of three disciplines; (2) study of a relevant language through the intermediate level; and (3) an overall g.p.a. of 2.5 in courses taken toward the certificate. Additional requirements for the Asian or African Certificate are (1) eight courses in a minimum of three disciplines in either of two options: *Option A*—Three courses must be in an African or Asian language, and the other five must relate to Africa or Asia; *B*—The eight courses must relate to Africa or Asia with no language requirement; (2) an overall g.p.a. of 2.5 in courses taken toward the certificate.

Register for any of these certificates with the Bachelor of Arts in International Studies Coordinator in the Center for International Studies.

Interpersonal Communication

See School of Interpersonal Communication in the College of Communication section for information about selective admission requirements. To earn a B.A. in interpersonal communication from the College of Arts and Sciences requires special permission. Inquire at the College of Arts and Sciences Student Affairs Office.

Latin

See Classics.

Latin American Studies

See International Studies.

Preparation for Law

If you are in the College of Arts and Sciences and plan to enter law school, complete the specific requirements for the Bachelor of Arts degree. No special curriculum is prescribed. You may complete a major in the area of your principal interest. Select courses from as many of the following as possible: English composition and literature and American literature; history, especially for English and American; political science; economics; sociology; a laboratory science; mathematics; philosophy, including ethics and logic; accounting; psychology; and a foreign language. Courses in speech and training in expression, as well as activities that develop the capacity for independent thought and action, are recommended.

The Departments of Economics, English, History, Philosophy, Political Science, and Sociology and Anthropology designate prelaw faculty advisors. These advisors have information about the Law School Admission Test and can supply applications. See the respective department listings in this section for specific information about major requirements. A further opportunity is the environmental prelaw major offered by the Department of Geography. See Geography—Environmental Prewlaw for information.

The Ohio Supreme Court has ruled that to enter law school you must be able to show possession of an undergraduate degree from an approved college if you wish to take the Ohio Bar Examination. Law schools in the state of Ohio require the degree of all entering students, regardless of the state in which they plan to take the bar examination.

The degree *in absentia* privilege is available if you do not plan to seek admission to an Ohio law school. After you have completed 144 quarter hours at Ohio University with a g.p.a. of 2.0 or above on all hours attempted and satisfied the requirements for a B.A. or B.S., you may obtain the degree after completing, at an accredited school of law, a full year's work of the quality prescribed for a bachelor's degree at Ohio University, provided you are eligible for advancement without condition to the second year of law school. Before entering the school of law, you must secure a statement in writing from the dean giving you the *in absentia* privilege.

Linguistics

Linguistics Major (B.A.)

Major Code BA5290

The requirements for a major in linguistics consist of 45 credit hours beyond 270; 30 hours must be in core linguistics courses, and 15 hours are to be chosen from other linguistics courses and clustered to form a concentration. Possible concentrations include teaching English as a second or foreign language, the use of computers in language teaching, sociolinguistics, psycholinguistics, and theoretical linguistics. In addition, courses in the social sciences, humanities, education, and communications will be recommended as external electives. Knowledge of a foreign language equivalent to two years of college-level study is required by the college; study of a second foreign language is recommended by the department. Transfer of credits from other programs or departments at Ohio University will be accepted upon approval of the department chair. Required core courses are the following:

LING 275 or LING 280	Intro to Lang. and Cult. Language in America	4
LING 350 or LING 351	Intro to Gen. Linguistics Fund. of Gen. Linguistics	5
LING 370 or LING 475	Intro to Psycholinguistics Theories of Lang. Learning	4
LING 460	Phonology	5
LING 470	Syntax	5
LING 485	Historical Linguistics	4
LING 495	Directed Research	3

To concentrate in teaching English as a second or foreign language, you must also take:

LING 410	Lang. Teaching Practicum	3
LING 475	Theories of Lang. Learning	4
LING 480	TEFL Theory and Methods	4
LING 482	Materials in TEFL	4

Linguistics Minor

Minor code OR5290

A minor in linguistics requires a minimum of 24 hours, with at least two courses at the 400 level. Areas of specialization include general linguistics, sociolinguistics, and teaching English as a second language.

An endorsement to teach English as a second language in Ohio public schools (K-12) is also offered in the summers of even-numbered years; certification in another field is prerequisite. A minimum of 27 credits is required for endorsement, including:

EDIC 205 or EDIC 420	Learning Non-Western Cultures Comp. Cultures and Educ.	4
LING 350	Intro to Gen. Linguistics	5
LING 410	Teaching Pract. (twice)	6
LING 475	Theories of Lang. Learning	4
LING 481	TESOL Methods (K-12)	4
LING 483	Testing in TESOL	4

Applicants must have knowledge of the equivalent of two years of college-level study of a foreign language. Passing of an NTE specialty area exam in TESOL is also required for K-12 endorsement.

Language and Literature Courses

The Department of Linguistics offers courses in Chinese, Indonesian/Malaysian, Japanese, and Swahili, although no major in these languages is available. If you are working toward an International Studies Certificate or a degree in African or Asian studies, however, you may choose three quarters of an appropriate African or Asian language as part of your course requirements.

The department also offers courses in the literatures of Asia, which may fulfill certain requirements for an International Studies Certificate or a degree in Asian studies. See the index for the specific language, or refer to "Foreign Languages and Literatures" in the Courses of Instruction section, which includes courses in both languages and literature. (Literature courses are listed in the Foreign Languages and Literatures section under International Literature: Linguistics).

Mathematics

Mathematics Major (B.S. or B.A.)

Major codes BS3101, BA3101

The requirement for the B.A. or B.S. in mathematics is 50 quarter hours in courses numbered 200 or above, 16 hours of which must be chosen from courses numbered 306 and above (exclusive of 490 and 491), all taken for grade. For a B.S., you must also complete MATH 314 (or 413A) and MATH 360 (or 460A) as part of your 16 hours chosen from courses numbered above 306.

When planning any program of study in mathematics, it is strongly recommended that you consult an advisor from the department. Also see the programs in Actuarial Science, Preparation for Advanced Training, Applied Mathematics, and Premeteorology listed as special curricula below.

To study mathematics strictly from a mathematician's viewpoint in specially designed courses, inquire about the department's tutorial program. (Standard courses listed in the catalog are designed to serve many departments and purposes.)

To prepare for teacher licensure, seek a broad background in various areas of mathematics, including algebra, analysis, geometry, computer science, probability, and statistics. In addition to the course requirements listed by the College of Education, suggested electives include MATH 343, 360, 406, 443, 450A, 450B, and 450C. Consult an advisor in the Department of Mathematics or College of Education for information, which is subject to change.

See the General Education Requirements listing in the "Graduation Requirements—University Wide" section for Tier I quantitative skills requirements.

Mathematics Minor

Minor code OR3101

The requirement for a minor in mathematics is 30 quarter hours in mathematics courses numbered above 200, including 10 quarter hours of courses numbered 306 or above.

Mathematics—Actuarial Sciences Major (B.S. or B.A.) Special curricula; major codes BS3105, BA3105

The following program is intended to prepare you for entry into the actuarial profession. After completing the program, you should be prepared to pass the first three of the ten actuarial examinations. Most students take one or two of these examinations before graduation.

The program has a strong business component (with the addition of BUSL 255 and two courses from MIS 202, MKT 301, OPN 310, it satisfies requirements for a business administration minor) and is also suitable if you plan to combine mathematics with a career in business.

In addition to the mathematics courses listed below, MATH 451 is also strongly recommended.

Freshman

MATH 263A, B, C	Calculus	12
MATH 211	Elem. Linear Algebra	4
ECON 103, 104	Prin. of Micro/Macro.	8

Arts and Sciences degree requirements (including language), university General Education Requirements, and/or electives.

Sophomore

MATH 263D	Calculus	4
MATH 340	Differential Equations	4
MATH 250	Intro to Prob. and Stat. I	4
MATH 251	Intro to Prob. and Stat. II	4
ACCT 101, 102	Fin. Acct. and Man. Acct.	8

Arts and Sciences degree requirements (including language), university General Education Requirements, and/or electives.

Junior

MATH 450A, B, C	Theory of Statistics	12
CS 210	Programming in C	5
FIN 325	Managerial Finance	4
MGT 200	Management	4

Arts and Sciences degree requirements (including language), university General Education Requirements, and/or electives.

Senior

MATH 444	Intro to Numerical Anal.	4
MATH 446	Numerical Linear Algebra	4
FIN 331	Risk and Insurance	4
FIN 436	Life Insurance	4
	Math elective	4

Arts and Sciences degree requirements (including language), university General Education Requirements, and/or electives.

Mathematics—Prep. for Advanced Training Major (B.S. or B.A.)

Special curricula; major codes BS3102, BA3102

You can ensure adequate preparation for graduate work by building your program around the basic mathematics offerings listed below. In addition, some computer science experience and coursework from the physical sciences is recommended. Consult an advisor in the Department of Mathematics for assistance in planning your program.

Freshman

MATH 263A, B, C	Calculus	12
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Arts and Sciences degree requirements (including language), university General Education Requirements, and/or electives.

Sophomore

MATH 263D	Calculus	4
MATH 306	Found. of Math. I	4
MATH 314	Elem. Abstract Algebra	4
MATH 360	Intermediate Analysis	4
	Math elective	4

Arts and Sciences degree requirements (including language), university General Education Requirements, and/or electives.

Junior-Senior

MATH 411	Linear Algebra	4
MATH 413A, B or MATH 480A, B,	Intro to Mod. Algebra Elem. Point Set Topology	8
MATH 460A, B, C	Advanced Calculus	12

Arts and Sciences degree requirements (including language), university General Education Requirements, and/or electives.

You are encouraged to select other 400-level mathematics electives as time and interest permit.

Mathematics—Applied Mathematics Major (B.S.)**Special curriculum; major code BS3103**

This program leads to a B.S. in mathematics with an emphasis on applications of mathematics to other disciplines. You select a secondary area of concentration in either engineering, computer science, natural sciences, social sciences, or business. The program's intent is to prepare you for employment as a professional applied mathematician.

Consult with either the chair of the Department of Mathematics or an advisor for assistance in designing a suitable plan. Your program must meet the following requirements:

Departmental requirements

MATH 263A, B, C, D	Calculus	16
MATH 306	Found. of Mathematics I	4
MATH 340	Differential Equations	4
MATH 360	Intermediate Analysis	4

Select additional courses from the following to make a total of at least 50 credit hours in mathematics:

MATH 410	Matrix Theory	4
MATH 412	Intro to Algebraic Coding Theory	4
MATH 440	Vector Analysis	4
MATH 441	Fourier Analysis and Partial Diff. Equations	4
MATH 442	Linear and Nonlinear Prog.	4
MATH 443	Math. Modeling and Optimization	4
MATH 444	Intro to Numerical Anal.	4
MATH 445	Adv. Numerical Methods	4
MATH 446	Numerical Linear Algebra	4
MATH 449	Adv. Diff. Equations	4
MATH 450A, B, C	Theory of Statistics	4-12
MATH 451	Stochastic Processes	4
MATH 460A, B, C	Advanced Calculus	4-12
MATH 470	Appl. Complex Variables	4

Arts and Sciences degree requirements (including language), university General Education Requirements, and/or electives

Secondary Area

16 credit hours in the secondary area of concentration at the 200 level or above.

Mathematics—Premeteorology Major (B.S. or B.A.)**Special curricula; major codes BS3104, BA3104**

This interdisciplinary program in the Departments of Geography, Mathematics, and Physics is designed to prepare you for training at the graduate level in the fields of meteorology, climatology, and atmospheric physics. The program can be taken with an emphasis in geography, mathematics, or physics (see department listings in this section). If you choose the mathematics emphasis, contact the Department of Mathematics for advising.

Freshman

CHEM 151	Fund. of Chemistry	5
CHEM 152	Fund. of Chemistry	5
GEOG 101	Elements of Physical Geog.	5
GEOL 101	Intro to Geology	5
MATH 263A, B, C	Calculus (or advanced placement)	12
	English Composition	5

Sophomore

GEOG 201	Environmental Geography	4
GEOL 211	Oceanography	4
MATH 263D	Calculus	4
MATH 340	Differential Equations	4
MATH 440	Vector Analysis	4
MATH 441	Fourier Series and Partial Diff. Equations	4
PHYS 251, 252, 253	General Physics	15

Junior

GEOG 302	Meteorology	5
GEOG 303	Climatology	5
GEOG 304	Observations in Meteorology	2
PHYS 311, 312	Mechanics	8
	English composition	4

Senior

Two courses in computer programming or quantitative methods (see advisor for approved list)		10
GEOG 405	Pract. in Meteorological Forecasting	2-10
PHYS 411	Thermodynamics	4

Mathematics requirements

MATH 410	Matrix Theory	4
MATH 444	Intro to Numerical Anal.	4
MATH 445	Adv. Numerical Methods	4
MATH 446	Numerical Linear Alg.	4

Arts and Sciences degree requirements, university General Education Requirements, and/or electives.

Medicine

See Biological Sciences or Chemistry, Preparation for Medicine.

Microbiology

See Biological Sciences.

Modern Languages

French Major (B.A.) — Major code BA5221

German Major (B.A.) — Major code BA5222

Russian Major (B.A.)—Major code BA5224

Spanish Major (B.A.) — Major code BA5225

Germanic, Romance, and Slavic languages are included in the offerings of the Department of Modern Languages. Majors are offered in French, German, Russian, and Spanish.

The major requirement for the B.A. in German or Russian is a minimum of 36 quarter hours beyond 213. In French and Spanish the requirement is 40 quarter hours beyond 213. Specific course requirements for German and Russian are 341, 342, 343, 348 or 349, 355, 356, and at least three courses at the 400 level, which should include courses in both language and literature. Spanish majors must complete 341, 342, and 343; 348, 349, 350, 351 or 352; and three of 345, 354, 355, and 356. As part of the 400-level requirement, Spanish majors must take one course in Peninsular literature, one in Latin American literature, and one in linguistics. French majors must complete 341, 342, 343, 348 or 349, and 354; they are also required to choose two of the following three courses: 345, 355, 356.

You are not permitted to take courses in your major subject on a pass/fail basis. A grade of C (2.0) or better must be earned in a course for those hours to count toward a major. You are strongly urged to study abroad in one of the department's programs. Suggested electives are classical languages, comparative literature, cultural anthropology, English, fine arts, history of the country in your major interest, and linguistics.

Due to changes in standards for teacher licensure in the State of Ohio, the current program in modern languages is subject to change. If you are interested in becoming licensed to teach foreign language at the secondary level, contact the Office of Student Services in the College of Education. Prospective teachers are urged to spend at least one quarter in study abroad.

The Language Resource Center was opened in September of 1998. It is located on the ground floor of the new Gordy Hall. It consists of a large independent study lab, a classroom computer lab, a classroom audio lab, an independent study audio lab, a faculty development room, a recording studio, a video editing room, and a classroom for observation.

The department has chapters of foreign language honoraries Delta Phi Alpha, Phi Sigma Iota, and Sigma Delta Pi. For information on the honors tutorial programs in French and Spanish, see the Honors Tutorial College section.

The following study-abroad programs are available through the department:

- 1 Austria: spring quarter in Salzburg offers beginning through advanced German.
- 2 France: spring quarter in Tours offers courses in beginning through advanced French.
- 3 Mexico: winter quarter in Merida offers intermediate and advanced Spanish and coursework in Latin American area studies.
- 4 Russia: spring quarter in Moscow offers intermediate and advanced Russian.
- 5 Spain: one-, two-, or three-quarter sequence in Pamplona offers courses necessary for completing the Spanish major or minor and for working toward the Certificate in European Studies.

French Minor—Minor code OR5221

German Minor—Minor code OR5222

Russian Minor—Minor code OR5224

Spanish Minor—Minor code OR5225

A foreign-language minor requires a minimum of 24 hours of language courses beyond 213 with a grade of C (2.0) or better in each course. There are no specific course requirements, but you should observe prerequisites and course sequences. Consult the chair of the majors committee in modern languages to develop a minor.

Music

See School of Music, in the College of Fine Arts section, for information about selective admission requirements. To earn a B.A. in music from the College of Arts and Sciences requires special permission. Inquire at the College of Arts and Sciences Student Affairs Office.

Pharmacy

See Biological Sciences or Chemistry, Prepharmacy.

Philosophy

Philosophy Major (B.A.)

Major code BA5241

The major requirement for a B.A. consists of a minimum of 40 hours, including

PHIL 310	Hist. of Western Phil.: Ancient	5
PHIL 312	Hist. of Western Phil.: Modern	5
PHIL 320	Symbolic Logic I	4
PHIL 490	Senior Seminar	3

At least three courses numbered above 400, not including 490 or 497.

You may begin your study of philosophy with courses at the 100, 200, or 300 level except as limited by specific prerequisites.

For more information, contact the Department of Philosophy.

Philosophy Minor

Minor code OR5241

The general requirement for the philosophy minor is 25 hours, at least 20 of which must be courses numbered 200 or above. For more information, contact the Department of Philosophy.

Philosophy—Prelaw Major (B.A.)

Special curriculum; major code BA5244

If you are in the College of Arts and Sciences and plan to enter law school, complete the specific requirements for a B.A. No special curriculum is prescribed. As a prelaw major, you may complete a major of your principal interest. The Departments of Economics, English, History, Philosophy, Political Science, and Sociology have designated prelaw advisors. For further information, see "Law" in this section.

Philosophy—Pretheology Major (B.A.) Special curriculum; major code BA5242

If you plan to enter a theological seminary or to do graduate study in religion, it is recommended that you take a broad program of undergraduate courses, including the following (with minimum credit suggested in each area): philosophy (12); courses on the texts and history of religions (15); English composition and literature, and world literature (21); history, including HIST 354, 356C, and 370 (15); social sciences (21); foreign languages (18); natural sciences (9); public speaking (3). Arrange your program to meet the requirements of the B.A. degree and the university General Education Requirements.

It is advisable to major in philosophy, English, or one of the social sciences. Check the entrance requirements of the theological seminaries, other religious educational institutions, or graduate schools of your choice and plan your curriculum accordingly. A pretheology major is also available from the Departments of English and History.

Preparation for Physical Therapy

Ohio University offers a unique opportunity to the prospective physical therapist. Recognized for leadership in the development of preprofessional physical therapy curricula since the 1930s, the Department of Biological Sciences and, more recently, the Department of Psychology, both in the College of Arts and Sciences, work cooperatively with the School of Physical Therapy in the College of Health and Human Services.

To be eligible for admission to an accredited professional school of physical therapy, you must first complete the baccalaureate-level preprofessional preparatory coursework and then apply on a competitive basis to a professional school of physical therapy. If you are accepted, the professional program extends for an additional two to three years, culminating in a degree in physical therapy from the professional program. The optional plans of study available will prepare you to be highly qualified for admission to most schools of physical therapy. However, some professional programs require special prerequisites—either courses or practical experience as a volunteer—before you apply for admission. It is your responsibility to check the admission requirements for programs you wish to attend and, in consultation with your academic advisor, to fulfill any special prerequisites.

The three-year master's program in the School of Physical Therapy admits students on a competitive basis. It is possible to be admitted into the program after completion of your junior year, provided you will be able to complete your bachelor's degree *in absentia* by the end of your first year in physical therapy. (This requires that in year one of the program you must complete a limited number of unfinished undergraduate courses concurrently with your physical therapy coursework.) You may also apply during your senior year so that, if accepted, you enter the professional program in the School of Physical Therapy with your undergraduate degree in pre-physical therapy already completed.

If you intend to apply to other professional programs in Ohio or outside the state (or even if you are unsure of plans for further training), you should complete your undergraduate degree in biological sciences/pre-physical therapy or psychology/pre-physical therapy first, as preparation for the future. Most physical therapy programs are offered at the graduate level only. In fact, after the year 2002, undergraduate professional physical therapy will no longer be accredited in Ohio. Note: depending upon the career

opportunities you ultimately pursue, you may decide to graduate with a standard B.S. in biological sciences or B.A. in psychology. This can be done with the addition of a few more courses in Arts and Sciences beyond those required for the pre-physical therapy track. The foreign language requirement must also be completed.

For additional information, see Biological Sciences or Psychology Pre-Physical Therapy majors in this section, the *in absentia* degree option in the University-Wide Graduation Requirements section, and "Physical Therapy" in the College of Health and Human Services section.

Physics and Astronomy

The Department of Physics and Astronomy offers majors in physics (B.A. or B.S.); preparation for advanced training for students planning to pursue graduate study in physics or astronomy; applied physics; and premeteorology. If you plan to pursue graduate study, you are urged to complete your foreign language requirement in German, French, or Russian.

Selected students may enroll in the physics tutorial program through the Honors Tutorial College. In this program, you have the option of taking engineering physics, for which a curriculum is listed in the Honors Tutorial College section.

Contact the chair of the Department of Physics and Astronomy if you are interested in pursuing any of the programs described below.

Physics Major (B.S. or B.A.) Major codes BS3331, BA3331

The minimum requirements for the **B.S.** degree with a major in physics are

56 quarter hours of physics, including

PHYS 210	Physics Seminar	1
PHYS 251, 252, 253	General Physics	15
PHYS 272, 273	Electronics Lab	4
PHYS 311, 312	Mechanics	8
PHYS 351, 352	Mod. and Quantum Physics	8
PHYS 371, 372, 373	Intermediate Labs	6
PHYS 411	Thermodynamics	4
PHYS 427, 428	Electricity and Magnetism	8

The following mathematics courses

MATH 263A, B, C, D	Calculus	16
MATH 340	Differential Equations	4
MATH 440	Vector Analysis	4
MATH 441	Fourier Anal. and Partial Differential Equations	4

12 quarter hours of natural sciences other than physics and mathematics (you may use elective courses in astronomy above the 200 level to satisfy portions of this 12-hour requirement)

The minimum requirement for the **B.A.** degree with a major in physics is 36 quarter hours, including

PHYS 210	Physics Seminar	1
PHYS 251, 252, 253	General Physics	15
PHYS 351, 352	Mod. and Quantum Physics	8

This degree is recommended if you want a general education with an emphasis on physics; have plans for further education or employment in an interdisciplinary area; or desire a dual major in physics and chemistry, biological sciences, geological sciences, etc.

You can meet the requirements for teaching high school physics by completing the physics major program listed in the College of Education section.

Astronomy Minor **Minor code ORASTR**

The minor in astronomy is an option for non-physics majors who wish to study astronomy as a special interest. (Physics majors who are interested in astronomy should enroll in the physics pre-astronomy program.) Students in mathematics, chemistry, engineering, and other fields of study will find a significant science overlap with their major areas of interest.

The astronomy minor consists of a set of required courses—PHYS 251 and 252, PHYS 253 or EE 321, PHYS 351 or 254, and ASTR 305—and at least 12 hours from ASTR 310, 401, 402, 403, 410, and 450.

Physics Minor **Minor code OR3331**

The minor in physics consists of a minimum of 30 hours with 10 hours at or above the 300 level.

Physics—Prep. for Advanced Training Major (B.S.) **Special curriculum; major code BS3334**

This is a demanding program for students interested in eventually earning advanced degrees in theoretical or experimental physics. However, courses are included that can equip you for career opportunities in industrial and government laboratories. Consult the chair about this program during your freshman year.

Freshman

MATH 263A, 8, C	Calculus	12
PHYS 210	Physics Seminar	1
PHYS 251, 252	General Physics	10
CHEM 151, 152	Fund. of Chemistry	10
	English composition	5

Arts and Sciences degree requirements (including language), university General Education Requirements, and/or electives.

Sophomore

MATH 263D	Calculus	4
MATH 340	Differential Equations	4
MATH 440	Vector Analysis	4
MATH 441	Fourier Analysis and Partial Diff. Equations	4
PHYS 253	General Physics	5
PHYS 272, 273	Electronics Lab	4
PHYS 303*	Digital Computing Methods	4
PHYS 351, 352	Mod. and Quantum Physics	8
PHYS 423*	Optics	4

Arts and Sciences degree requirements (including language), university General Education Requirements, and/or electives.

Junior

MATH 410*	Matrix Theory	4
MATH 470*	Applied Complex Variables	4
PHYS 311, 312	Mechanics	8
PHYS 371, 372, 373	Intermediate Labs	6
PHYS 420*	Acoustics (odd years)	3
PHYS 453*	Nuclear and Particle Phys.	4
	English composition	4

Arts and Sciences degree requirements (including language), university General Education Requirements, and/or electives.

Senior

PHYS 411	Thermodynamics	4
PHYS 412*	Kinetic Theory and Statistical Mechanics	4
PHYS 420*	Acoustics (odd years)	3
PHYS 427, 428, 429*	Elec. and Magnetism	11
PHYS 475*	Adv. Lab (three quarters)	3-9
PHYS 451	Quantum Mechanics	4
PHYS 471*	Solid State Physics	4
PHYS 493*	Undergraduate Seminar	1

Arts and Sciences degree requirements (including language), university General Education Requirements, and/or electives.

*Recommended

Physics—Applied Physics Major (B.S.) **Special curriculum; major code BS3332**

This four-year program leads to a B.S. in physics and allows an emphasis in experimental techniques together from specific engineering or other applied sciences. It provides the opportunity for a broad basic education in areas fundamental to present technology and is aimed at preparing you for many physics career opportunities in industry and government laboratories.

The sequence of courses will vary depending on your interests. Basic requirements in natural sciences, physics, and mathematics will be equivalent to those of the regular B.S. in physics but may be set in engineering or other applied science courses. The elected sequence of interest could be toward a specific area of interest within an engineering college, e.g. Civil, Mechanical, Electrical, etc. or over a broad area of interest e.g. materials science, which comes from several colleges.

The advantage of preparing for applied science through the fundamental physics program is the acquisition of the abilities for continued development of the technology from fundamental physics principles.

Physics Pre-Astronomy Major (B.S.) **Special curriculum; major code BS3335**

This challenging program offers a solid foundation in physics along with specialized study for students interested in pursuing advanced degrees in astronomy or astrophysics. Required and recommended courses are listed below by the year in which they are taken by most students. The order is not fixed, but check the course listing for prerequisite requirements. Consult the department chair and pre-astronomy major advisor during your freshman year for help in planning your program.

Freshman

	English composition	5
MATH 263A, B, C	Calculus	12
PHYS 210	Physics Seminar	1
PHYS 251, 252	General Physics	10

Arts and Sciences degree requirements (including language), university General Education Requirements, and/or electives.

Sophomore

MATH 263D	Calculus	4
MATH 340	Differential Equations	4
MATH 410*	Matrix Theory	4
CS 220*	Intro to Computing	5
PHYS 253	General Physics	5
PHYS 272, 273	Electronics Lab	4
PHYS 351, 352	Mod. and Quantum Physics	8

Arts and Sciences degree requirements (including language), university General Education Requirements, and/or electives.

Junior

	English composition	4
MATH 440	Vector Analysis	4
MATH 441	Fourier Analysis and Partial Diff. Equations	4
ASTR 305	Fund. of Astrophysics	3
ASTR 401	Stellar Astrophysics	3
ASTR 402	Galactic and Interstellar Astrophysics	3
PHYS 311, 312	Mechanics	8
PHYS 371, 372, 373	Intermediate Lab	6

Arts and Sciences degree requirements (including language), university General Education Requirements, and/or electives.***

Senior

	Tier III	4
ASTR 310**	Astronomy Lab	1-3
ASTR 403	Extragalactic Astrophysics and Cosmology	3
ASTR 410**	Observ. Astrophysics	3
ASTR 450**	Studies in Astronomy	1-3
PHYS 411	Thermodynamics	4
PHYS 412*	Kinetic Theory and Stat. Mechanics	4
PHYS 427, 428	Elec. and Magnetism	8
PHYS 429*	Electromag. and Relativity	3
PHYS 451*	Quantum Mechanics	4

Arts and Sciences degree requirements (including language), university General Education Requirements, and/or electives.***

If you are in the Honors Tutorial Program, special combinations of some of the above courses are available. Consult with the pre-astronomy advisor.

* Strongly recommended.

** A total of at least six hours in combined coursework from ASTR 310, 410, or 450 is required.

*** Beneficial PHYS electives include 303 Computing Methods in Physics, 423 Optics, and 453 Nuclear and Particle Physics.

Physics—Premeteorology Major (B.S.)**Special curriculum; major code BS3336**

The following interdisciplinary program in the Departments of Geography, Mathematics, and Physics is designed to prepare you for graduate training in the fields of meteorology, climatology, and atmospheric physics. The program can be taken with an emphasis in geography, mathematics, or physics (see department listings in this section). If you choose the mathematics emphasis, contact the Department of Mathematics for advising.

Freshman

CHEM 151	Fund. of Chemistry	5
CHEM 152	Fund. of Chemistry	5
GEOG 101	Elements of Physical Geog.	5
GEOL 101	Intro to Geology	5
MATH 263A, 263B, 263C	(or advanced placement), Analytic Geom. and Calc.	12
	English composition	5
PHYS 210	Physics Seminar	1

Sophomore

GEOG 201	Environmental Geography	4
GEOL 211	Oceanography	4
MATH 263D	Analytic Geom. and Calc.	4
MATH 340	Differential Equations	4
MATH 440	Vector Analysis	4
MATH 441	Fourier Series and Partial Diff. Equations	4
PHYS 251, 252, 253	General Physics	15

Junior

GEOG 302	Meteorology	5
GEOG 303	Climatology	5
GEOG 304	Observations in Meteorology	2
PHYS 311, 312	Mechanics	8
	English composition	4

Senior

Two courses in computer programming or quantitative methods (see advisor for approved list)			10
GEOG 405	Pract. in Meteorological Forecasting	2-10	
PHYS 411	Thermodynamics	4	

Physics emphasis requirements

CE 340	Fluid Mechanics	5
PHYS 272, 273	Electronic Lab	4
PHYS 254	Contemporary Physics	3
PHYS 412	Kinetic Theory and Statistical Mechanics	4
or PHYS 423	Optics	

Arts and Sciences degree requirements, university General Education Requirements, and/or electives.

Political Communication Certificate Program

The Colleges of Arts and Sciences and Communication jointly sponsor a certificate in political communication for students who wish to supplement their undergraduate major with an inquiry into the arena of political communication. Political communication encompasses the interactions of political figures, political interests, the press, and the public in their efforts to persuade and influence political outcomes. The program is open to any undergraduate student in the university.

To receive a certificate in political communication, you must complete POCO 201 Introduction to Political Communication and POCO 401 Seminar in Political Communication, as well as 22 quarter hours from the courses listed below. No more than two courses from any one department can be counted toward the certificate.

A Political Communication Certificate is awarded upon completion of the requirements and graduation from the university. Notation of the award is recorded on your transcript. Consult the director of the Center for Political Communication before the deadline for graduation to ensure that the certificate will be awarded.

Required Courses

POCO 201	Intro to Political Comm.	3
POCO 401	Seminar in Political Comm.	5

Courses in the Curriculum

ECON 316	Economics and the Law	4
ECON 430	Public Finance	4
INCO 250	Intro to Rhetorical Theory	4
INCO 300	Field Research Methods in Communication	4
INCO 342	Comm. and Persuasion	4
INCO 352	Political Rhetoric	4
INCO 430	Comm. and the Campaign	5
INCO 442	Responsibilities and Freedom of Speech	4
JOUR 233	Information Gathering	3
JOUR 370	Media Relations and Publicity	4
JOUR 411	Communication Law	4
JOUR 412	Mass Media and Society	3
JOUR 464	Public Affairs Reporting	3
JOUR 471	Public Relations Principles	5
JOUR 472	Advanced Public Relations	4
LING 280	Language in America	5
PHIL 240	Social and Political Philosophy	4
PHIL 442	Philosophy of Law	5
POLS 250	International Relations	5
POLS 304	State Politics	4
POLS 405	American Political Parties	4
POLS 406	Elections and Campaigns	4
POLS 410	Public Policy Analysis	4
POLS 415	The American Presidency	4
POLS 417	Legislative Processes	5
POLS 418	Interest Groups	4
POLS 420	Women, Law, and Politics	4
POLS 424	Intergovernmental Politics	4
POLS 476A	American Political Thought	4

POLS 476B	American Political Thought	4
POLS 481	Modern Political Analysis	4
PSY 304	Human Learning and Cognitive Processes	4
PSY 336	Social Psychology	4
SOC 210	Intro. to Social Psychology	4
SOC 351	Elementary Research Techniques	4
SOC 413	Mass Communication	4
SOC 414	Contemporary Social Movements	4
SOC 432	Political Sociology	4
SOC 465	Social Change	4
TCOM 370	Mass Communication Theories	4
TCOM 371	Effects of Mass Communication	4
TCOM 453	Law and Regulation	5
TCOM 475	Politics and the Electronic Media	4

Political Science

Political Science Major (B.A.) Major code BA4201

The major requirement is a minimum of 52 hours including

POLS 101	Amer. Natl. Government	4
POLS 150	Current World Problems	4
POLS 270	Political Theory	4
Two additional 200-level courses		

At least four 300- and 400-level courses in one of the following tracks:

American politics

POLS 301, 304, 306, 310, 319, 323, 401, 402, 405, 406, 407, 415, 417, 418, 420, 424, 425, 476A, 476B

Comparative politics

POLS 331, 333, 340, 429, 432, 434, 435, 438, 439, 441, 442, 445, 446, 447A, 447B, 463, 464

International relations

POLS 354, 427, 433, 452, 455, 456, 457, 459, 463, 464

Political theory

POLS 371, 372, 373, 404, 475, 476A, 476B, 477, 478, 479

Public policy and administration

POLS 304, 310, 320, 408, 410, 412, 413, 414, 424, 425, 484, 486, 487, 488

Public law

POLS 301, 374, 401, 402, 404, 409, 413, 420, 455, 477

Identity and social movements

POLS 319, 323, 418, 420, 478

General Politics

One 300- or 400-level course from each of four different tracks

All majors are encouraged to take additional courses designed to develop skills, including POLS 305J, 390, 480, 481, 482, 483, 484, and 495.

Political Science Minor Minor code OR4201

The minor in political science requires a minimum of 28 hours, including POLS 101, 150, 270, and at least 16 hours at the 300–400 level.

Political Science Pre-Foreign Service Major (B.A.) Special curriculum; major code BA4202

To prepare for the annual foreign service officer examinations, you are advised to acquire as broad an education as possible. Facility in written and spoken English; competency in a foreign language; and a good background in economics, history, political science, business, or public administration are essential. A pre-foreign service major is available through the Departments of Economics, History, or Political Science. You can obtain detailed information about foreign service officer examinations, including sample questions from previous examinations, from these departments.

Political Science—Prelaw (B.A.) Special curriculum; major code BA4203

If you are in the College of Arts and Sciences and plan to enter law school, complete the specific requirements for the Bachelor of Arts degree. No special curriculum is prescribed. As a prelaw major, you may complete a major of your principal interest. The Departments of Economics, English, History, Philosophy, Political Science, and Sociology have designated prelaw advisors. For further information, see "Law" in this section of the catalog.

Political Science—Public Policy and Administration Major (B.A.) Special curriculum; major code BA4200

The interdisciplinary program in public policy and administration is designed to provide broad training in preparation for a career with local, state, or federal government in the areas of budgeting, personnel administration, intergovernmental relations, program planning and evaluation, and general administration.

You must meet general requirements for the B.A. and those for a major in political science. Be careful to meet the prerequisites for all courses. You are encouraged to gain as broad an understanding of politics as political science majors, since politics is a crucial element in public administration.

For further information and advice, consult the public administration advisor in the Department of Political Science.

Required courses

ECON 103	Microeconomics	4
ECON 104	Macroeconomics	4
CS 120	Computer Literacy	4
PSY 221 or Q8A 201 or POLS 482	Statistics for Beh. Sciences Intro to Business Statistics Quant. Political Analysis	5 4 5
POLS 102	Issues in American Politics	4
POLS 210	Public Administration	4
POLS 310	American Domestic Policy	4
POLS 304 or POLS 320	State Politics Urban Politics	4

Any five of the following:

POLS 407	Politics of Urban Dev.	4
POLS 408	Urban Public Admin.	4
POLS 410	Public Policy Analysis	4
POLS 412	Public Personnel Admin.	4
POLS 413	Administrative Law	4
POLS 414	Org. Theory and Politics	4

POLS 424	Intergovernmental Relations in the U.S.	4
POLS 425	Environ. and Natural Res. Politics and Policy	4
POLS 429	Comparative Public Admin.	4
POLS 484	Mgt. Skills for Public Admin.	5
POLS 486	Public Budgeting	4
POLS 487	Financial Mgt. in Govt.	4
POLS 488	Public Dispute Resolution	4

Select additional courses in political science to satisfy the requirement for a political science major. The major consists of a total of at least 52 hours in political science, including POLS 101, 150, and 270.

Recommended electives

ACCT 201	Financial Accounting	4
ACCT 202	Managerial Accounting	4
ECON 425	Public Policy Economics	4
ECON 430	Public Finance	4
FIN 325	Managerial Finance	4
GEOG 201	Environmental Geography	4
GEOG 326	Urban Geography	4
GEOG 350	Land Use Planning	4
POLS 409	Criminal Procedure	4
POLS 495	Internship	4
SOC 430	Soc. of Organizations	4

Psychology

Psychology Major (B.A.) Major code BA4101

The major requirement for the B.A. in psychology consists of a minimum of 50 quarter hours and a maximum of 72 hours. All majors are required to take

PSY 101	General Psychology	5
PSY 221	Stat. for Beh. Sciences	5
PSY 226	Experimental Psychology	4
Biological—at least one of the following:		
PSY 201	Sensation and Perception	4
PSY 203	Learning	4
PSY 312	Physiol. Psychology	4
PSY 314	Comp. Psychology	5
PSY 327	Human Psychophysiol.	4
PSY 490*	Seminars	3–5

Cognitive—at least one of the following:

PSY 304	Human Learning and Cognitive Processes	4
PSY 305	Human Memory	4
PSY 307	Psycholinguistics	4
PSY 308	Human Judgment and Decision Making	4
PSY 490*	Seminars	3–5

Developmental—at least two of the following:

PSY 273	Child and Adoles. Psych.	4
PSY 275	Educ. Psychology	4
PSY 315	Behavior Genetics and Individual Differences	5
PSY 374	Psych. of Adulthood and Aging	4
PSY 376	Psychological Disorders of Childhood	4
PSY 378	Psychology of Gender	4

PSY 470	Prenatal Influences on Development	4
PSY 490*	Seminars	3-5

Clinical—at least two of the following:

PSY 233	Psych. of Personality	4
PSY 332	Abnormal Psychology	4
PSY 341	Tests and Measurements	4
PSY 351	Intro to Clinical and Counseling Psychology	4
PSY 380	Psych. of Health and Illness	4
PSY 430	Psychoactive Drugs	4
PSY 490*	Seminars	3-5

Social-Organizational—at least two of the following:

PSY 261	Industr. and Org. Psych.	4
PSY 336	Social Psychology	4
PSY 337	Social Psych. of Justice	4
PSY 361	Adv. Org. Psychology	4
PSY 362	Personnel Psych.	4
PSY 490*	Seminars	3-5

At least four courses at the 300 level or above (if you plan to attend graduate school in psychology, you should include PSY 233, 273, 312, 304, 321, 332, 336, and 418.)

A three-course sequence in one of seven natural science areas as outlined below. These courses were chosen to provide a basic foundation in at least one science area, while allowing flexibility in the choice of area. All of these courses also count as natural sciences options for Arts and Sciences area requirements.

Biological Sciences: BIOS 170, 171, and any BIOS or MICR course at the 200 level or above

or
BIOL 101, BIOS 103, and any BIOS or MICR course at the 200 level or above
or
BIOS 103 and any two BIOS or MICR courses at the 200 level or above

Chemistry: 121, 122, and 123 or 151, 152, and 153.

Environmental and Plant Biology: 101, and either 220, 225, 247, or 248, and any 300-level course or 110, 111, and any 300-level course.

Geography: 101, 302, and 303.

Geology: 101, and any two of 211, 215, and 221.

Physics: 201, 202, and 203.

Either two math or two computer science courses must be completed from the list below. These courses were chosen to ensure that you have at least a basic literacy in math or computer science. Both the math and computer science courses allow you to choose from a wide range of levels. Three of the courses (MATH 113, 115, and CS 220) do not count as natural sciences options for Arts and Sciences area requirements.

Math: 113, 115, 150, 163A, 163B, 211, 263A, 263B, 263C, or 263D. See the Courses of Instruction section for math prerequisites and sequence restrictions (e.g., no credit for MATH 250 if you have taken PSY 221).

Computer Science: Any course numbered 200 or above.

For qualified students, the department offers a departmental honors program. A detailed description is available from the department; apply to the assistant chair for undergraduate affairs.

Requirements for all psychology programs are structured to provide you with exposure to several areas of psychology, while providing latitude in selecting courses to fit your needs and interests. Consult your academic advisor early in your program to plan appropriate course selections, particularly if you are considering graduate work in psychology.

At the graduate level, the department offers doctoral programs in clinical, experimental, and industrial-organizational psychology and a master's program in experimental psychology. Information about the graduate programs is available from the assistant chair for graduate affairs.

*490 seminars that apply to these area requirements are approved by the assistant chair for undergraduate affairs when the seminar is offered. Some 490s do not apply to any area.

Note: All students are required to obtain experience with the methodology of psychological research through participation in psychology experiments or through the completion of an equivalent option. According to ethical guidelines, you may withdraw, without penalty, at any time from an experiment in which you are participating.

Psychology Minor Minor code OR4101

The minor in psychology consists of a minimum of 28 hours, with at least two courses at the 300 level or above. PSY 101 and 120 or 221 are required. In addition, at least one course is required in four of the following five areas:

- A Biological: 201, 203, 312, 314, 327, 490*
- B Cognitive: 304, 305, 307, 308, 490*
- C Developmental: 273, 275, 315, 374, 376, 378, 470, 490*
- D Clinical: 233, 332, 341, 351, 380, 430, 490*
- E Social-Organizational: 261, 336, 337, 361, 362, 490*

*490 seminars that apply to these area requirements are approved by the assistant chair for undergraduate affairs when the seminar is offered. Some 490s do not apply to any area.

Psychology Pre-Physical Therapy Major (B.A.) Special curriculum; major code BA4105

This program prepares you to transfer to a physical therapy professional program after your junior year. Students not accepted into a physical therapy program or those who wish to complete a B.A. in psychology pre-physical therapy before applying should plan sufficient time to complete the courses listed below, plus additional Arts and Sciences requirements including the B.A. degree foreign language requirement.

The following program will not prepare you to complete a degree in biological sciences. If you are not accepted into the physical therapy program but desire to pursue a career in medicine or certain allied health fields, you should consider a major from the programs offered in biological sciences and chemistry, or from those offered through the College of Health and Human Services.

For further information about physical therapy, see the Physical Therapy listing in this section. See also the pre-physical therapy program listed under Biological Sciences in this section.

Freshman

CHEM 121, 122, 123*	Principles of Chemistry	12
	English composition	5
MATH 163A, B	Calculus	7
PSY 101†	General Psychology	5
PSY 221†	Statistics	4
PT 259A	Intro to Phys. Therapy	2
SOC 101†	Intro to Sociology	5
BIOS 170, 171	Intro to Zoology	10

Arts and Sciences degree requirements, and/or electives.

Sophomore–Junior

PHYS 201, 202 [†]	Intro to Physics	10
PSY 226	Experimental Psychology	4
PSY 273	Child and Adolescent Psychology	4
PSY 312	Physiological Psychology	4
PSY 332	Abnormal Psychology	4
BIOS 302	Human Anatomy (soph)	6
BIOS 345, 346	Human Physiology and Lab (soph)	7
BIOS 352 or PE55 302	Biomechanics Biomechanics (must be section for pre-physical therapy majors)	4
BIOS 445, 446	Physiol. of Exercise, Lab	7
PHIL 101	Fund. of Philosophy	5
PHIL 130 or PHIL 331	Intro. to Ethics Moral Problems in Medicine	4 or 5
ENG 305J	Technical Writing (jr)	4
or ENG 308J	Adv. Composition (jr)	4
	Tier II (A or T area)	4–5

Arts and Sciences degree requirements, and/or electives. BIOS 402, Human Neuroscience, is not required by Ohio University's School of Physical Therapy but may be required for admission to other programs.

Junior–Senior

PSY 374	Adulthood and Aging	4
one of:		
PSY 201	Sensation and Perception	4
PSY 203	Learning	4
PSY 304	Human Learning	4
PSY 308	Human Judgment and Decision Making	4
PSY 327	Human Psychophysiol.	4
one of:		
PSY 233	Psych. of Personality	4
PSY 351	Clinical and Counseling Psychology	4
PSY 380	Psych. of Health and Illness	4
PSY 430	Psychoactive Drugs	4
one of:		
PSY 275	Educational Psychology	4
PSY 315	Behavior Genetics and Individual Differences	5
PSY 376	Psychological Disorders of Childhood	4
two of:		
PSY 261	Industrial and Organizational Psychology	4
PSY 336	Social Psychology	4
PSY 337	Social Psych. of Justice	4
	Tier III (sr)	4–5

Arts and Sciences degree requirements, major courses, General Education courses, and/or electives.

*The 120 chemistry sequence is usually sufficient for physical therapy programs. Other biomedical and allied health areas may require the 150 chemistry sequence. The regular psychology major does not require chemistry.

[†]If you are completing the B.A. in psychology pre-physical therapy and plan to start college-level foreign language with a course beyond 111, you are advised to begin foreign language in your freshman year and to complete PSY 101, PSY 221, and/or SOC 101 in the sophomore year. If you are starting foreign language with 111, begin language courses no later than the junior year.

*PHYS 203 may be required for admission to certain graduate and professional schools of physical therapy.

Degree *in Absentia* for Psychology Pre-Physical Therapy Students

To be considered for *in absentia* status, you must obtain written permission from the dean of the College of Arts and Sciences. To obtain a degree *in absentia*, you must complete:

all Ohio University General Education Requirements, including Tier III

all College of Arts and Sciences area distribution requirements and the language requirement

a minimum of 192 quarter hours, including the first year of the master's program in physical therapy and the following courses:

CHEM 121, 122, and 123 (or 151, 152, and 153); ENG 151, 152, or 153; MATH 163A and 163B; PHIL 101 and 130; BIOS 170, 171, 302, 345, 346, 352, 445, and 446; PHYS 201 and 202; PSY 101, 221, 226, 312, 273, and 332; two of PSY 275, 315, 374, 376, 378, 489*; one of PSY 233, 341, 351, 380, 430; one of PSY 304, 305, 307, 308; two of PSY 261, 336, 337, 361, 362; PT 259A; ANTH 101; SOC 101; ENG 305J or 308J.

*You may receive up to five hours of credit for volunteer work in a physical therapy setting. Volunteer hours are required for application to many physical therapy programs.

Social Work**Social Work Major (B.A.)
Major code BA6601**

The Department of Social Work offers a flexible interdisciplinary curriculum designed to prepare you for beginning generalist social work practice. Upon completing the program, you will receive a B.A. with a major in social work. The Department of Social Work is fully accredited by the Council on Social Work Education. Graduates are qualified for full membership in the National Association of Social Workers and eligible for licensing as a social worker in Ohio.

Program Requirements

General requirements for a major in social work consist of a minimum of 55 hours of social work courses, plus at least 45 quarter hours of liberal arts foundation courses. Departmental required courses are:

SW 101	Intro to Social Welfare and Social Work	3
SW 290	Social Welfare as an Inst.	4
SW 350	Res. Meth. in Social Work	4
SW 383	Intro to Social Work Practice Methods	4
SW 390	Social Policy	4
SW 393, 394	Dyn. of Human Behavior	8
SW 396, 397, 398	Social Work Practice I, II, III	12
SW 491A, 491B, 491C	Integrative Seminar	6
SW 492A, 492B, 492C	Field Practicum	11

The following liberal arts foundation courses also are required:

BIOS 103	Human Biology	5
PSY 221	Statistics	5
PSY 273	Child and Adoles. Psych.	4
PSY 332	Abnormal Psychology	4
PSY 374	Psych. of Adulthood and Aging	4

In addition to these foundation courses, 27 hours are taken in the social sciences, including at least one course in each of the following areas: anthropology, economics, political science, and sociology. The choice of courses in these disciplines is left to you with the approval of your advisor and the permission of the instructor. You may use social work elective courses to substitute for up to a maximum of four hours of this social sciences requirement.

Admission to the Professional Major

Admission to the program is divided into two stages: preprofessional and professional. Freshmen are admitted as preprofessional majors (major code ND6603) to work on freshman- and sophomore-level requirements. To be admitted to the professional program, you are required (regardless of whether you are an Ohio University student or a transfer student) to submit an application and admissions essay to the department's screening committee. Applications are accepted during the second full week of each quarter; forms and guidelines are available from the department.) To be considered, you must have completed a minimum of 48 quarter hours (12 quarter hours at OU for transfer students), with a minimum overall g.p.a. of 2.5. In addition, you must have completed (1) both SW 101 and SW 290 with a C average; (2) BIOS 103, PSY 221, PSY 273, as well as one course in any two of these areas: anthropology, economics, political science, and sociology; (3) Tier I composition (ENG 151, 152) and quantitative skills (MATH 113 recommended) requirements; (4) at least one quarter of the foreign language requirement other than high school; (5) a paid or volunteer social work experience. Meeting minimal requirements does not ensure admission to the major. To maintain compliance with the Council on Social Work Education student/faculty ratio standards, no more than 40 students are admitted annually.

To enroll in the senior-level practice sequence (SW 396, 397, 398; SW 491A–C; SW 492A–C), you must have been admitted to the major. In addition, you are expected to have (1) maintained an overall g.p.a. of 2.5; (2) completed one year of the foreign language requirement; and (3) completed all prerequisites for the sequence.

**Social Services Minor
Minor code OR6602**

Minor requirements consist of a minimum of 29 hours including the following courses, with at least 20 hours at the 300 level: SW 101, 190, 290, 383, 390, 393, 394, and one social work elective. The minor does not make you eligible for licensure in states regulating the practice of social work.

Sociology**Sociology Major (B.A.)
Major code BA4251**

The major requirements for the B.A. in sociology are a minimum of 45 quarter hours of courses in sociology, of which at least 16 hours must be at the 400 level, and including:

SOC 101	Intro to Sociology	5
SOC 351	Elem. Research Tech.	4
SOC 403 or SOC 404	Dev. of Sociol. Thought Mod. Sociol. Theory	4
PSY 221	Statistics or approved equivalent	4

Students must complete courses in each of the four areas listed below as part of the forty-five hours in the major.

Social Inequality. At least one of the following

SOC 230	Sociology of Poverty	4
SOC 329	Race and Ethnic Relations in the U.S.	4
SOC 331	Classes and Social Inequality	4
SOC 429	Soc of Race, Ethnicity and Class	4
SOC 435	Soc of the Welfare State	4
SOC 470	Gender and Social Inequality	4

Societal Institutions. At least one of the following

SOC 220	Sociology of the Family	4
SOC 233	Sociology of Sport	4
SOC 424	Urban Sociology	4
SOC 430	Formal Organization	4
SOC 432	Political Sociology	4
SOC 433	Sociology of Occupations	4
SOC 464	Law and Social Control	4
SOC 465	Social Change	4

Social Psychology. At least one of the following

SOC 210	Social Psychology	4
SOC 211	Collective Behavior	4
SOC 315	Social Identities	4
SOC 412	Public Opinion	4
SOC 416	Society and the Individual	4
SOC 419	Small Groups	4

Integrative Topics. At least one of the following

SOC 340	Human Population Ecology	4
SOC 361	Deviant Behavior	4
SOC 365	Sociology of Mental Illness	4
SOC 414	Social Movements	4
SOC 421	Comparative Studies of the Family	4
SOC 422	The American Family System	4
SOC 467	Violence to Women	4
SOC 471	Gender and Justice	4

(Courses in anthropology count toward the Arts and Sciences social sciences requirement.)

**Sociology Minor
Minor code OR4251**

The requirement for the minor is a minimum of 28 hours of coursework in sociology, of which at least 16 hours must be at the 300 or 400 level; SOC 101; 351, and 403 or 404.

Sociology—Criminology Major (B.A.) Special curriculum; major code BA4253

The criminology program is designed for students who plan to pursue a career in some aspect of the criminal justice system (e.g., corrections, probation, parole, or law enforcement) yet wish to receive a liberal arts education. Possibilities after graduation include employment in criminal justice or further study in law, criminology, or criminal justice. You will receive a degree in sociology with the specialization in criminology noted. You are encouraged to enter the program as a freshman to help ensure completion in four years.

Required courses (30 credit hours)

SOC 101	Intro to Sociology	5
PSY 221	Statistics (or approved equivalent)	5
SOC 260	Criminal Justice	4
SOC 351	Research Techniques	4
SOC 362	Criminology	4
SOC 403* or SOC 404	Devel. of Soc. Thought Modern Soc. Theory	4
SOC 466* or SOC 468	Penology Community-Based Corr.	4

Criminology options: Take four courses for 16–22 credit hours

SOC 361	Deviant Behavior	4
SOC 363	Juvenile Delinquency	4
SOC 365	Soc. of Mental Illness	4
SOC 464	Law & Social Control	4
SOC 467	Violence Against Women	4
SOC 471	Gender & Justice	4
SOC 495	Internship in Criminology (by permission only)	5–10

Collateral sociology courses: Take three courses for 12 credit hours

SOC 201	Social Problems	4
SOC 211	Collective Behavior	4
SOC 230	Soc. of Poverty	4
SOC 329	Minority Group Relations	4
SOC 331	Class & Social Inequality	4
SOC 450	Data Analysis	4

Total credit hours: 58–68

The following courses are highly recommended, and you are encouraged to take some of them to satisfy the College of Arts and Sciences 18-hour social sciences requirement. Check the Courses of Instruction section for prerequisites.

PSY 332	Abnormal Psychology
PSY 337	Social Psychology of Justice
POLS 404	Civil Liberties
POLS 409	Criminal Procedure

* Preferred

Sociology—Prelaw Special curriculum; major code BA4254

If you are in the College of Arts and Sciences and plan to enter law school, you will complete the specific requirements for the Bachelor of Arts degree. No special curriculum is prescribed. As a prelaw major, you may complete a major of your principal interest. The Departments of Economics, English, History, Philosophy, Political Science, and Sociology have designated prelaw advisors. For further information, see "Law" in this section.

Spanish

See Modern Languages.

Theater

Major code BA5131

This curriculum is intended to serve students who want both a theater major and a broad liberal arts foundation for their university education. It includes a study of theater in the context of human concerns and activities by establishing a solid foundation of course-work in the humanities, sciences, cultures, and languages. It recognizes that many students in the major possess varied talents and interests. You will benefit from the rigorous artistic demands made by courses designed for B.F.A. students in the School of Theater, while also meeting the challenges of a liberal arts education. Although you are encouraged to select courses that provide an emphasis for your work, you are not permitted to major in any one area of theater or to concentrate exclusively on any one area of interest.

The B.A. program also provides an opportunity to major in more than one discipline. Second majors such as English, history, and creative writing are not uncommon, while others, including journalism, music, criminal justice administration, prelaw, and sociology, have been successful choices.

One of the goals of the B.A. in theater is the preparation of the most gifted students for successful admission to graduate schools or other advanced training in theater or other areas. However, even if you do not wish to extend your training beyond the baccalaureate level, the B.A. in theater addresses both the quality and the diversity of your training.

In addition to general education and arts and sciences area requirements, the theater major includes:

THAR 101, 103	Intro and Orientation to the Theater as a Profession	2
THAR 110 or THAR 113	Intro to Performance Acting Fundamentals I*	2 or 4
THAR 130	Design Prin. for the Stage	3
THAR 131	Practical Elements of Stagecraft	3
THAR 172	Elements of Performance	3
THAR 220 or THAR 250	Directing I Playwriting	4

5 quarters of practicum (10 hours) distributed over more than one area (you will work with your advisor to ensure correct distribution)

12 quarter hours from the following:

THAR 270	Theater History I	4
THAR 271	Theater History II	4
THAR 272	Theater History III	4
THAR 470	Tragedy	4
THAR 471	Comedy	4
THAR 472	Forms of Drama	4
THAR 473	Seminar in Theater History and Drama	4
THAR 477	Amer. Theater and Drama	4
THAR 479	Independent Studies in Theater Hist. and Crit.	1–6

*THAR 113 is preferred. No credit for 113 if you have credit for 110.

The balance of the degree program will consist of 30 credit hours at the 200 level or above in the School of Theater. No more than 24 credit hours may count toward the degree in one (narrow) area of interest, e.g., acting, lighting, publicity, playwriting, etc. No more than 8 hours of practicum (beyond the core requirement) may count toward the degree.

You must submit a plan for the distribution of the 30 credits for consultation and approval by your advisor as a condition of your final acceptance into the major program. While sufficient flexibility for change of direction and focus must be provided throughout your residence, there must be and agreed-upon understanding of the purpose of the program of study and the plan for accomplishing that purpose.

The total requirement in the School of Theater is 71 credit hours. No more than 72 credits in any area (including the theater major may count towards the 192 credits needed for the B.A.

Theology

See English, History, or Philosophy—Pretheology.

Virology

See Biological Sciences—Microbiology.

Women's Studies Certificate Program

This program is available as an option in any baccalaureate degree program offered by the university. The requirements for the certificate are

WS 100	Intro to Women's Studies	4
WS 200	Issues in Feminism	4
WS 250	Hist. of Feminist Thought	4
WS 400	New Scholarship on Women	4

14 quarter hours from the following*:

AAS 345	The Black Woman	4
AAS 482	The Black Family	4
ANTH 345	Gender in Cross-Cultural Perspective	4
CLAS 343	Women in the Ancient Mediterranean	4
ENG 153A	Freshman Composition: Special Topics (Women and Men in Literature)	5
ENG 306J	Women and Writing	4
ENG 325	Women and Literature	4
FILM 471	Women and Film	4
HIST 320A	Women in American History Before 1877	4
HIST 3208	Women in American History Since 1877	4
HIST 332	Women in the Middle East	4
HIST 360	Women in Eur. History	4
HIST 381	History of the Family	4
HLTH 427	Health of Women	4
INCO 420	Gender and Comm.	4

INCO 422	Comm. in the Family	4
LING 390	Lang. of Men and Women	3
PESS 400	Women in Sports	3
PHIL 216	Philosophy of Science Survey	3
POLS 319	Gay and Lesbian Politics	4
POLS 420	Women, Law, and Politics	4
POLS 478	Feminist Political Theories and Movements	5
POLS 4908	Gender and Political Development in Postcolonial Africa	4
PSY 378	Psychology of Gender	4
SOC 220	Introduction to the Family	4
SOC 407	Feminist Social Theory	4
SOC 467	Violence Against Women	4
SOC 470	Sex Roles and Inequality	4
SOC 471	Gender and Justice	4
TCOM 481	Women and the Media	4
TCOM 486A	Age, Class, Gender, Race, and Sexual Orientation in the Media	4
WS 360	Women and Work Internship	4
WS 493	Special Topics	4

* Additional courses are currently being developed. Experimental courses and certain courses offered under special topics and special studies rubrics will also count as core courses under appropriate conditions. See the women's studies director or associate director for advising, for additional information on courses, and to register for the certificate. The Women's Studies Certificate is awarded upon graduation from Ohio University, and the award is recorded on your transcript. Consult the director before the deadline for graduation to ensure that the certificate will be awarded.

Zoology

See Biological Sciences.

College of Business

Copeland Hall

Glenn Corlett
Dean

Ted R. Compton
Associate Dean

Michael Bila
Assistant Dean,
Office of Student
Services

The College of Business seeks to prepare men and women for professional careers in business, government, and nonprofit organizations. Consistent with its mission, the college provides a base of liberal education needed by all educated persons in our society, business-oriented instruction in professional fields, and a close association with other colleges to promote knowledge and understanding from a variety of sources.

Business instruction and research revolve around three themes: preparing the manager for a variety of business activities; developing analytical skills; and fostering a critical awareness of the social, political, and economic environment in which decisions are made.

The academic departments offer major fields of study in accounting, business law, finance, general business, human resource management, international business, management, management information systems, marketing, and business entrepreneurship. A major in business economics is also available.

The College of Business has been an accredited member of the AACSB—The International Association of Management Education since 1950.

Advisory Committees

The Executive Advisory Board of the College of Business, the formal external arm of the college, serves as a representative of the business community at large. The board is a group of professionals, managers, and executives who review and advise the college on activities necessary to accomplish college missions from the perspective of the business community. The board meets with the dean, faculty, and students twice a year to give advice on college programs. Members are often on campus to speak to student organizations or classes and to participate in special college programs. The board is extremely helpful to the college's continuing efforts to maintain excellence in education for future business leaders.

The Society of Alumni and Friends of the College of Business, made up of graduates, friends, and former students of the college, functions as the alumni relations arm of the college. Since 1982 this society has provided innovative and meaningful alumni involvement in sponsorship, planning and support, alumni awards, recruitment, etc. The 12-member board of directors of the society formally meets on the Athens campus twice a year and initiates yearly alumni receptions in many other cities.

Honorary and Professional Organizations

The College of Business seeks to improve the quality of its programs and provide educational development opportunities for its students through its honorary and professional organizations.

Beta Gamma Sigma, the national scholarship society founded in 1913 to encourage and reward scholarship and accomplishment among students of business administration, has an active chapter at Ohio University. Beta Alpha Psi is a national accounting honorary that elects its members on the basis of scholastic achievement in accountancy courses.

Students also are encouraged to participate in student professional organizations, including Alpha Kappa Psi, a professional business fraternity; Alpha Upsilon chapter of Delta Sigma Pi, a professional business fraternity; Phi Alpha Delta, a national prelaw fraternity; Phi Gamma Nu, a professional business fraternity; Gamma Iota Sigma, an insurance fraternity; the Accounting Club; the American Marketing Association; the Association of Collegiate Entrepreneurs; the Association of Information Technology Professionals; the Black Students Business Caucus; the Financial Management Society; the International Business Society; the Management Science Society; the Society for Advancement of Management; the Society for Human Resource Management; and the M.B.A. Student Association.

Internship Program

The College of Business offers an internship program to assist students in securing practical experience during their college career. In today's job market, recent graduates are expected to have job-related experience. Internships are available for all College of Business majors, and undergraduates can earn academic credit for career-related job experience. Multiple internships are encouraged.

The Career Resources Office of the College of Business encourages organizations to interview students on campus and frequently refers resumes to interested employers. Internship sponsors come from all different kinds of companies of all sizes. Previous sponsors include Andersen Consulting, Arthur Andersen, Ernst & Young LLP, J.C. Penney, KPMG Peat Marwick LLP, Lancaster Fairfield Hospital, Nationwide Insurance, Price Waterhouse Coopers LLP, Sherwin Williams, Smucker's, Cleveland Cavaliers, Deloitte & Touche LLP, Lynch, Anselmo, Ott & Co., Merrill Lynch, Nation City Corp, Philip Morris, Toyota Motor Corporation, Honda, and many others.

Students and employers are encouraged to contact Angela Anderson, Director of Employer Services, at 740-593-2009 or andersoa@ohio.edu for more information.

Study Abroad

The Center for International Business Education and Development offers study-abroad opportunities for students in the College of Business. The Global Competitiveness Program offers several opportunities during the first summer session in 1999: **Eastern Europe** begins at the Athens campus, moving on to Janus Pannonius University in Pecs, Hungary; then to Budapest, Hungary; **South Africa** begins on the Athens campus, moving on to Capetown, South Africa, then up the coast to Port Elizabeth. **Western Europe** begins on the Athens Campus, moving on to the Asturias Business School in Oviedo, Spain; then to Barcelona, Spain. **Far East** begins on the Athens Campus, moving on to Hong Kong, then to either Mainland China or Vietnam. Students in these programs earn 16 credit hours from various courses in business. Highlights include consulting projects with area firms and the opportunity to experience local cultures.

Future opportunities being explored include additional summer experience destinations and a winter-break study tour to Mexico or South America.

For more information, contact the director, Center for International Business Education and Development, Copeland Hall 514C, telephone 740-593-2021, fax 740-593-1388.

You may receive credit for other overseas programs offered by Ohio University or other U.S. colleges after making arrangements with your advisor and the college's Office of Student Services.

International Exchange Programs

The College of Business has exchange programs with Amsterdam School of Business, the Netherlands; University of Limburg, Belgium; Sup de Co Rennes, France; Sup de Co Clermont, France; Helsinki School of Economics, Finland; University of Vaasa, Finland; Asturias Business School, Spain; and Kiel University, Germany. Students at the junior and senior level may spend a semester or a year (two semesters) at one of these schools and receive credit for core and elective business courses in the Ohio University curriculum.

Language requirements vary, as many courses are taught in English.

Tuition is paid directly to Ohio University at current rates. You pay your own living costs (travel, room, board, books, insurance, personal needs, etc.).

For more information, contact the director, Center for International Business Education and Development, Copeland Hall 514C, telephone 740-593-2021, fax 740-593-1388.

Enrollment Policies

Freshman Policy

Freshmen will be admitted into the college on a selective basis. Normally, you will need to be in the top 20 percent of your high school class with a strong college preparatory curriculum. You are expected to have above-average ACT or SAT scores, and also have demonstrated leadership potential through participation in extracurricular activities or work experience. Members of groups that are historically underrepresented in business will receive special consideration.

Transfer Policy

A limited number of students from other colleges within Ohio University and from other institutions of higher education will be permitted to transfer to the College of Business. Applications for transfer are available from the college.

Any student considering transfer to the college is strongly encouraged to contact the college's Office of Student Services as early as possible. You must be enrolled in the college before your senior year to allow for the college's 48-hour residency requirement. You must earn at least 50 percent of the business credit hours required for the business degree at Ohio University.

There are two conditions under which you are eligible to be considered for transfer into the college. One condition is that you have completed INCO 103, ECON 103, ECON 104, MATH 163A, and ENG 151, 152, or 153, or equivalent courses, and have an accumulative g.p.a. of 3.0 or higher. The second condition is that you have an overall 2.75 g.p.a. and a 3.0 g.p.a. or better in the five courses listed above.

You cannot be guaranteed admission even though you meet the above criteria. The college admissions committee will admit transfer students up to the college's enrollment ceiling. Students judged to have the highest probability of success will be admitted. Members of groups that are historically underrepresented in business will receive special consideration.

Applications for transfer into the college will be accepted each spring quarter. The college admissions committee reviews applications once per year at the close of spring quarter. Successful applicants will be admitted to the college during the summer quarter. Application information may be obtained from the Office of Student Services at 214 Copeland Hall.

To transfer from another university, submit the standard documents required by the Office of Admissions, as well as the application for the College of Business. You will be notified as early as possible of the admission decision.

Freshman Drop Policy, Academic Probation, and Dismissal

In addition to the university regulations listed in the Academic Policies and Procedures section, the college has established probation and drop regulations.

Freshman Drop Policy

Any freshman admitted to the College of Business on the Athens campus during the fall quarter who has earned less than a 2.5 accumulative g.p.a. after his or her first three academic quarters will be dropped from the College of Business.

Grades will be reviewed at the end of spring quarter. Freshmen with an accumulative g.p.a. that is less than 2.5 at that time will have a "hold" put on their academic records, making them unable to register for future classes until they transfer out of the College of Business and into another Ohio University college for which they are eligible.

Students should realize that if they are dropped from the College of Business, the prospect of transferring back into the College is unlikely. This is due to the high level of interest and the limited number of positions available to transfer students.

College Probation and Dismissal

At the close of a quarter in which your accumulative g.p.a. falls below a 2.2, you will be placed on college probation. You will remain on college probation until your accumulative g.p.a. is above 2.2, but for no longer than two quarters. If you have not raised your accumulative g.p.a. to at least 2.2 after two quarters of college probation, you will be dismissed from the College of Business. If you are dismissed from the College of Business with a g.p.a. based on these college probation standards, but do not qualify for academic dismissal under the university standards, you may be able to transfer into another college within Ohio University. At that time the Ohio University standards for university-level academic probation and dismissal will apply.

It is important to be aware that the minimum academic standards for the College of Business are at a higher level than the minimum academic standards for Ohio University. Please familiarize yourself with the university policy for academic probation and dismissal,

which can be found in the Academic Policies and Procedures section of this catalog.

Retaking a Core Course

You will be limited to three attempts at the college's core courses. If you have made three unsuccessful attempts at a required core course, you will be notified that you have been dropped from the college.

To attempt a course is to be enrolled long enough for the course to appear on the transcript or grade report. A letter grade, W, WP, WF, or grade replacement counts as an attempt. Attempts at another institution count toward the limit if you take the course as a transient student after enrollment in the College of Business.

Core courses include ACCT 101 and 102; BA 100A, 100B, and 370; BUSL 255; ECON 103 and 104; FIN 325; MGT 202; MIS 201 and 202; MKT 202; OPN 310; PRCM 202, and 325J; and QBA 201.

BUSL 255, MGT 202, MIS 202, MKT 202, and PRCM 202 must be taken in a 18-credit-hour cluster during your sophomore year (see recommended course sequence). Depending on the course or courses involved, students failing one course in a cluster may be required to retake the course in its stand-alone form, and students failing more than one course in a cluster may be required to retake the entire cluster.

BA 370, FIN 325, OPN 310, and PRCM 325J are offered in a 16-hour cluster at the junior senior level (see recommended course sequence). Students failing a course in a junior-level cluster must obtain permission to be allowed to repeat the course. Students failing multiple courses in a cluster may be required to retake the entire cluster.

If you need to retake a core course that is part of a cluster, go to the Office of Student Services to determine what needs to be done and obtain permission to get into the appropriate classes.

Minors

College of Business students may choose to complete a minor offered by another area within the university.

Students who are not enrolled in the College of Business may complete a business minor. Requirements for the minor are listed at the end of the business curricula.

Due to accreditation standards, students outside the college are allowed to complete only 44 hours of courses in the business curriculum.

Preparation for Law School

If you are in the College of Business and plan to enter law school, you should follow the B.B.A. degree curriculum and also select, with the approval of your advisor, courses in other fields, especially American government, American and English history, English, philosophy, interpersonal communication, and additional theory courses in the College of Arts and Sciences, except those that substantially duplicate material found in the typical law school curriculum.

The Ohio Supreme Court's regulations governing the admission to the practice of law in Ohio require that, as a student entering law school, you be able to show possession of an undergraduate degree from an approved college if you wish to take the Ohio Bar Examination. However, the court provides for one possible exception—if you have earned, subsequent to graduation from law school, a bachelor's degree through completion of courses and credits other than those received in law school, and have a record of academic achievement that is satisfactory to the Ohio Supreme Court, you may be permitted to apply for admission to the practice of law in Ohio. Law schools in the state of Ohio have supplemented this Supreme Court rule by requiring an undergraduate degree of all entering students, regardless of the state in which they plan to take the bar examination.

A degree *in absentia* program is available for students who do not plan to take the Ohio Bar Examination and who do not plan to seek admission to an Ohio law school. If you desire to (1) enter, at the end of three years of college work, a school of law located outside Ohio and (2) receive a B.B.A. from Ohio University after completing the first year in law school, you may do so provided you have obtained the written approval of the dean of the College of Business; you have completed a minimum of 144 quarter hours, including the required courses in the B.B.A. curriculum (BUSL 255 excluded), with a g.p.a. of 2.0 on all hours attempted; you have completed a full year's work in an accredited law school with an average equivalent to that prescribed for the bachelor's degree at Ohio University; and you are eligible for advancement without condition to the second year.

If there is any possibility that you might wish to take the Ohio Bar Examination, you are urged to obtain an undergraduate degree before entering law school.

Requirements for All B.B.A. Majors

As a candidate for the Bachelor of Business Administration (B.B.A.) degree, you must complete the university's General Education Requirements for graduation and fulfill a minimum of 192 quarter hours of credit with a g.p.a. of 2.2 for all hours attempted. You must also maintain a 2.2 g.p.a. for courses taken in business and economics, and a 2.2 g.p.a. for courses in your major. The College of Business limits transfer credit for required business courses taken at a lower level to such courses as it offers at that lower level. Other transfer credits accepted by the university are evaluated as either business or nonbusiness electives.

Courses included in the 192-hour minimum for the B.B.A. must be chosen so that at least 79 quarter hours are earned in areas of business and economics and at least 96 quarter hours are earned in nonbusiness areas. However, 8 hours of economics principles may be counted in either minimum.

Majors

All B.B.A. candidates must complete a core of courses covering the tools of analysis and the operational fields of business plus the requirements for one of the following majors:

Accounting	Human Resource Management
Business Economics	International Business
Business Entrepreneurship	Management
Business Prelaw	Management Information Systems
Finance	Marketing
General Business	

The Business Prelaw, Business Entrepreneurship and International Business majors require the completion of a second major. You can change your major or add a second major through the Office of Student Services.

Core Curriculum

The following courses are taken individually: ACT 101, 102; QBA 201; and MIS 201.

At the sophomore and junior level, business core courses are grouped into two clusters:

Business Context

BUSL 255, MGT 202, MIS 202, MKT 202, and PRCM 202

Introduction to Business Systems

FIN 325, OPN 310, BA 370, and PRCM 325J

All B.B.A. candidates are required to take these courses in their clustered form. Core clusters are offered in two formats: harmonization and full integration. You must take at least one of the two core clusters in the full integration format. Core cluster sections offered in this format are identified in each quarter's *Schedule of Classes* under the *Business Cluster* section.

Nonbusiness Requirements

You must complete the following nonbusiness courses:

Communications: 8 hours

ENG 151, 152, or 153	Freshman Composition	4 (1E)
INCO 103	Public Speaking	4

Mathematics: 8 hours

MATH 163A	Intro to Calculus	4 (2N)
MATH 250	Intro to Probability	4

Economics: 8 hours

ECON 103	Prin. of Microeconomics	4 (2S)
ECON 104	Prin. of Macroeconomics	4 (2S)

Performance Portfolio: 8 hours

Two of the following:

JOUR 133	Precision Language	4
INCO 205	Group Discussion	4
INCO 206	Comm. in Interpersonal Relationships	4
INCO 215*	Argumentative Analysis	4
INCO 304*	Principles and Techniques of Interviewing	4
INCO 306*	Interpersonal Conflict Management	4
INCO 342*	Comm. and Persuasion	4
INCO 410*	Cross-Cultural Commun.	4

*Prerequisite for this course is INCO major or minor.

Note: a list of other options is available at 214 Copeland Hall.

Global Perspective: 12 hours

12 hours of a modern foreign language (211, 212, 213) or 12 hours of approved coursework from one or more departments focusing on a single geographic region from one of the following:

Asia

ANTH 385	Cult. of Southeast Asia	4
GEOG 338	Southeast Asia	4
HIST 246	The Rise of Modern Asia	4 (2T)
HIST 344A	Hist. of the Malay World	4
HIST 344B	Hist. of Burma and Thailand	4
HIST 344C	Hist. of Vietnam	4
HIST 345A	Southeast Asia to 1750	4 (2T)
HIST 345B	Southeast Asia 1750 to 1942	4 (2T)
HIST 345C	Southeast Asia 1942 to Present	4 (2T)
HIST 346A	Traditional China	4 (2T)
HIST 346B	Modern China	4 (2T)
HIST 348A	Traditional Japan	4
HIST 348B	Modern Japan	4
HIST 449	Hist. of East Asia in Modern Times	4
INST 103	Modern Asia	4 (2T)
JAPN 250	Japanese Lang. and Cult.	4 (2T)
PHIL 370	Hinduism	4 (2T)
PHIL 371	Buddhism	4 (2T)
PHIL 372	Islam	4 (2T)
PHIL 374	Taoism	5 (2T)
POLS 44S	Govt. and Pol. of Japan	4
POLS 447A	Govt. and Politics of Southeast Asia	4

Africa

AAS 315	Literature of West Africa	4
AAS 316	Literature of South Africa	4
ANTH 381	Cultures of Sub-Saharan Africa	4
GEOG 331	Geography of Africa I	4
GEOG 332	Geography of Africa II	4
HIST 336A	North Africa in Modern Times	4
HIST 336B	North Africa Since 1914	4
HIST 338	History of West Africa	4
HIST 338A	History of East Africa	4
HIST 341A	Early Africa	4 (2T)
HIST 341B	Traditional Africa	4 (2T)
HIST 341C	Modern Africa	4 (2T)
HIST 342A	South Africa to 1899	4
HIST 342B	South Africa Since 1899	4
HIST 343	Revolution in Southern Africa	4
INST 113	Modern Africa	4 (2T)
POLS 441	Govt. and Pol. of Africa	4
POLS 464	Africa and the OAU	3

Europe

ECON 353	European Economic Hist.	4
FR 348	French Civilization and Culture	4
GEOG 330	Geog. of Western Europe	4
HIST 364B	Contemporary Europe	4
HIST 366B	Modern France	4
HIST 368B	Modern Germany	4
HIST 372C	Balkans in the 20th Century	4
HIST 392C	20th Century England	4
INST 118	European Studies	4 (2T)
ITAL 348	Italian Civilization and Culture	4
POLS 432	Policy Making in Russia	4
RUS 348	The Cult. Hist. of Russia	4
SPAN 348	Spanish Civilization and Culture	4
SPAN 361	Understanding Spoken Spanish	4

Latin America

ANTH 383	Cultures of Latin America	4
GEOG 335	Latin America	4
HIST 323A	Latin American History: Colonial Era	4 (2T)
HIST 323B	Latin American History: 19th Century	4 (2T)
HIST 323C	Latin American History: 20th Century	4 (2T)
HIST 325	Hist. of U.S.-Latin American Relations	4
HIST 426	Dictatorship in Latin American History	4
INST 121	Interdisciplinary Survey of Latin America	4 (2T)
POLS 434	Govt. and Politics of Latin America	4
POLS 435	Revolution in Latin America	4
SPAN 349	Spanish American Civilization and Culture	4
SPAN 361	Understanding Spoken Spanish	4

Middle East

ANTH 388	Cultures of the Middle East	4
HIST 332	History of Women in the Middle East	4
HIST 333	Oil, Energy, and International Diplomacy	4
HIST 334	The Arab-Israeli Dispute	4
HIST 335A	Survey of Middle East History to 1800	4 (2T)
HIST 335B	Survey of Middle East History Since 1800	4 (2T)

Breadth Cluster: 32 hours

One approved 4-hour course from each of the following areas:

Ethical issues

BA 480	Ethics and Morality in Business	4
JOUR 412	Ethics, Mass Media, and Society	3
PHIL 130	Intro to Ethics	4 (2H)
PHIL 231	Philosophy of Sport	4
PHIL 235	Business Ethics	3
PHIL 330	Ethics	5
PHIL 331	Moral Problems in Medicine	4
PHIL 332	Philosophy of Sex and Love	4

Diversity issues

AAS 106	Intro to African Amer. Studies	4
AAS 150	Intro to Black Media	5 (2H)
AAS 220	Theories of African Amer. Social Development	4
AAS 250	Foundations of African Amer. Arts and Culture	4 (2H)
AAS 341	African Amer. Personality	4
AAS 345	The Black Woman	4
AAS 350	African Amer. Arts and Artists	4 (2H)
AAS 352	Blacks in Contemporary Amer. Cinema	4 (2H)
AAS 482	The Black Family	5
ANTH 345	Gender in Cross-Cultural Perspective	4
HIST 302	American Indians	4
HIST 313	Jews in American History	4
HIST 315B	Hist. of African Americans Since 1865	4 (2S)
HIST 320B	Women in Amer. Hist. Since 1877	4
HLTH 427	Health of Women	4
INCO 420	Gender and Communication	4
POLS 306	Politics of Appalachia	5
POLS 319	Gay and Lesbian Politics	4
POLS 323	Black Politics in the U.S.	4
POLS 420	Women, Law, and Politics	4
POLS 478	Feminist Political Theory and Movements	5
SOC 309	Sociology of Appalachia	4
WS 100	Intro to Women's Studies	4 (2H)
WS 200	Issues in Feminism	4

Economics

If your major is accounting, management information systems, management, human resource management, business law, general business, international business, entrepreneurship, or business economics, take any 300- or 400-level economics course except ECON 300, 307, or 381. If your major is finance or marketing, take ECON 305.

Environmental/technical issues

BA 465	Technology and the Environment	4
BIOS 220	Conservation in Biodiversity	4 (2A)
EH 260	Intro to Environmental Health and Safety	4
EH 275	Environ. and Occupational Health and Safety Regs.	4
ET 280	Eng. and Tech. Overview	4 (2A)
ET 320	Hist. of Western Tech.	3 (2A)
ET 325	Pollution Solutions I	3
ET 326	Pollution Solutions II	3
ET 334	Water Pollution Control	3
ET 337	Transportation Today	3
ET 350	Engineering and the Technological Society	3 (2A)
ET 470	Energy and the Environ.	3 (2A)
GEOG 201	Environmental Geography	4 (2A)
GEOG 241	Global Issues in Environmental Geography	4
GEOL 215	Environmental Geology	4 (2A)
GEOL 231	Water and Pollution	4 (2A)
HIST 306	Amer. Environmental Hist.	4
IT 110	Intro to Manufacturing Processes	4 (2A)
POLS 425	Env. and Nat. Resource Politics and Policy	4
TCOM 105	Intro to Mass Commun.	4 (25)
JOUR 105	Intro to Mass Commun.	4 (25)

Behavioral sciences

ANTH 101	Intro to Cultural Anthro.	5 (2T)
PSY 101	General Psychology	5
PSY 201	Sensation and Perception	4 (25)
PSY 203	Learning	4
PSY 231	Psychology of Adjustment	4
PSY 233	Psychology of Personality	4
PSY 261	Survey of Industrial and Organizational Psych.	4
PSY 273	Child and Adolescent Psychology	4
PSY 275	Educational Psychology	4
PSY 336	Social Psychology	4
SOC 101	Intro to Sociology	5 (25)
SOC 201	Contemp. Social Problems	4 (25)
SOC 210	Intro to Social Psychology	4
SOC 211	Collective Behavior	4
SOC 220	Intro to the Family	4

Political/legal/social issues

AAS 202	African American Hist. II 1865 to Present	4 (25)
AAS 254	History of Injustice in the U.S.	5
AAS 360	Black Politics in the U.S.	4
AAS 364	Comp. Study of Injustice	4
AAS 368	Black Political Thought	4
AAS 370	Urban Violence	4
AAS 430	Social Theories of Underdevelopment	4
BUSL: any course except 255 and course used to satisfy major or other requirements		
ECON 213	Current Econ. Problems	4
ECON 315	Economics of Health Care	4
ECON 316	Economics and the Law	4
GEOG 121	Human Geography	4 (25)
GEOG 131	World Regional Geog.: Third World	4 (2T)
GEOG 132	World Regional Geog.: Industrial World	4 (25)
GEOG 220	Economic Geography	4 (25)
HIST 101, 102, or 103	Western Civilization in Modern Times	4
HIST 121, 122, or 123	Western Heritage	4
HIST 131	Intro to Non-Western Hist.	4
HIST 211, 212, or 213	American History	4
POCO 201	Intro to Political Communication	3
POLS: any course except 306, 319, 323, 420, 425, 428		
SOC 223	American Society	4 (25)
SOC 230	Sociology of Poverty	4
SOC 231	Sociology of Health and Health Care	4
SOC 240	The Future of Society	4
SW 101	Intro to Social Welfare and Social Work	3 (25)

Literature

AAS 110	Intro to African Amer. Lit.	4 (2H)
AAS 210	African American Lit. I	4 (2H)
AAS 211	African American Lit. II	4 (2H)
AAS 310	Contemporary African Amer. Lit.	4
AAS 311	African Amer. Lit.: Special Topics	4
AAS 315	Literature of West Africa	4
AAS 411	Literature Seminar	4
CLAS 234	Classical Mythology	4 (2H)
CLAS 235, 236, or 237	Classics in Translation	4 (2H)
CLAS 301	Love in Antiquity	4
CLAS 312	Greek Tragedy	4
CLAS 313	Greek Sophists and Orators	4
ENG 200	Intro to Literature	4 (2H)
ENG 201	Crit. Approaches to Fiction	4
ENG 202	Crit. Approaches to Poetry	4
ENG 203	Interpretation of Drama	4 (2H)
ENG 204, 205, or 206	Intro to International Lit.	4 (2H)
ENG 327	African American Fiction	4
ENG 328	African American Poetry	4
ENG 329	African American Drama	4

ENG 331, 332, or 333	Studies in Asian Lit.	4 (2T)
ENG 341	American Literature	4
ENG 342	Eng. and Continental Lit.	4
FL: any course		
HUM: any course		

Physical sciences

ANTH 201	Intro to Biological Anthro.	5 (2N)
ASTR 100	Survey of Astronomy	4 (2N)
ASTR 100D	Moons and Planets: The Solar System	4 (2N)

BIOS: any course

BIOL 101	Principles of Biology	5
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CHEM: any course except 115

ET 331	Fluid Dynamics for Nonengineers	3
GEOG 101	Physical Geography	5 (2N)
GEOL 101	Intro to Geology	5 (2N)
GEOL 120	The Mobile Earth	4 (2N)
GEOL 211	Intro to Oceanography	4 (2N)
GEOL 221	Earth and Life History	4 (2N)
PBIO 102	Plant Biology	5 (2N)
PBIO 321	Agricultural Plant Ecology	4
PBIO 425	Plant Ecology	5
PHYS 201	Intro to Physics	5 (2N)
PHYS 251	General Physics	5 (2N)
PSC 101	Physical World	4 (2N)
PSC 105	Color, Light, and Sound	4 (2N)

Recommended Course Sequence**Freshman**

ACCT 101	Financial Accounting	4
BA 100A	Intro to Coll. of Business I	1
BA 100B	Intro to Coll. of Business II	1
ECON 103	Prin. of Microeconomics	4
ECON 104	Prin. of Macroeconomics	4
ENG 151, 152, or 153	Freshman Composition	5
INCO 103	Public Speaking	4
MATH 163A	Intro to Calculus	4
MATH 250	Intro to Probability	4
Approved electives (nonbusiness requirements)		17

Note: see Freshman Drop Policy, page 113

Sophomore

ACCT 102	Managerial Accounting	4
MIS 201	Intro to Microcomputers	3
QBA 201	Intro to Statistics	4

Business Context Cluster

BUSL 255	Business Law	4
MGT 202	Management	4
MIS 202	Business Info. Systems	4
MKT 202	Marketing Principles	4
PRCM 202	Intro to Prof. Comm.	2
Approved electives (nonbusiness requirements)		19

Junior**Introduction to Business Systems Cluster**

BA 370	Administrative Policy I	4
FIN 325	Managerial Finance I	4
OPN 310	Principles of Operations I	4
PRCM 325J	Prof. Communication I	4
Major courses and approved electives		32

Senior

Major courses and remaining electives	48
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At least one core cluster must be taken in the fully integrated format. See each quarter's *Schedule of Classes* in the *Business Cluster* Section.

Accounting Major

Major code BB6121

The mission of the School of Accountancy is to prepare bright men and women for successful careers in the accounting profession. We provide a superior education with competent professors who challenge their students to excel and who support their students' professional aspirations.

Students who perform well in the undergraduate program can earn the M.S. in Accountancy, in addition to the B.B.A., by completing a fifth year of study as a graduate student. Additional information about this program is available from the *Graduate Catalog* or by contacting the School of Accountancy.

Program Requirements

Accounting majors must complete the college's business core curriculum, professional performance portfolio, global perspective requirements, and the breadth cluster of courses. The major consists of seven required accounting courses. Timely enrollment in the major courses is essential to completion of the degree within four years. These courses are listed below. To continue as an accounting major, you must achieve at least a 2.33 g.p.a. in ACCT 303, 304, and 310.

Major courses required of all accounting majors

ACCT 317	Federal Income Taxes	4
ACCT 303, 304, 305	Inter. Accounting	12
ACCT 310	Cost Accounting	4
ACCT 345	Accounting Systems and Internal Control	4
ACCT 451	Auditing Principles	4

Recommended Course Sequence**Freshman****Fall quarter**

BA 100A	Intro to the Coll. of Bus.	1
ECON 103	Prin. of Microeconomics	4
INCO 103	Fundamentals of Public Speaking	4
MATH 163A	Intro to Calculus	4
Breadth requirement		4

Winter quarter

BA 100B	Intro to the Coll. of Bus.	1
ACCT 101	Financial Accounting	4
ECON 104	Prin. of Macroeconomics	4
MATH 250	Intro to Prob. and Stats.	4
Breadth/performance/global		4

Spring quarter		
ACCT 102	Managerial Accounting	4
ENG 15x	Freshman Composition	5
Breadth/performance/global		8

Sophomore

Fall quarter		
QBA 201	Intro to Business Statistics	4
ACCT 303	Intermediate Acct. I	4
Breadth/performance/global		8
Winter quarter		
ACCT 304	Intermediate Acct. II	4
MIS 201	Intro to Microcomputers	3
Breadth/performance/global		8

Spring quarter		
Business context cluster		18

Junior

Fall quarter		
ACCT 310	Cost Accounting	4
Elective		4
Breadth/performance/global		8

Winter quarter		
Business systems cluster		16

Spring quarter		
ACCT 305	Intermediate Acct. III	4
ACCT 345	Internal Control	4
Breadth/performance/global		8

Senior

Fall quarter		
ACCT 451	Auditing Principles	4
Electives		8
Breadth/performance/global		4

Winter quarter		
Electives (or Internship)		12

Spring quarter		
Electives		8
Tier III course		4
ACCT 317	Federal Income Taxes	4

Junior transfers to the accounting major should follow this course sequence assuming they have completed sophomore level business courses:

Junior Transfer

Fall quarter		
ACCT 303	Intermediate Acct I	4
ACCT 310	Cost Accounting	4

Winter quarter		
ACCT 304	Intermediate Acct. II	4

Spring quarter		
ACCT 305	Intermediate Act. III	4
ACCT 345	Internal Control	4

Senior Transfer

Fall quarter		
ACCT 451	Auditing Principles	4
Can elect 340		4

Winter quarter		
Junior Cluster		16

Spring quarter		
ACCT 317	Federal Income Taxes	4

Not all accounting courses are offered every quarter. Check with your advisor or the School of Accountancy to make sure you can take courses when you plan.

Business Economics Major

Major code BB6124

The B.B.A. business economics major, designed to provide a broad business background, is intended for those who plan careers in business and economic research for both private firms and government, in banking, and in marketing analysis. It also is an important component for business management, law, operations, and financial analysis.

In addition to completing the B.B.A. core requirements, you must complete at least 20 additional hours of economics including ECON 304 and 384. ECON 380 and 381 cannot be counted toward this requirement. No economics course can be counted toward both nonbusiness and major requirements.

Business Entrepreneurship Major

Major code BB6133

The business entrepreneurship major assists students expand their knowledge of the entrepreneurial process, and develop a portfolio of venture management skills, as well as offering unique learning experiences to students who aspire to either start up their own business or secure employment in a fast-growth-oriented business.

Topics include new venture creation, small business management, and corporate entrepreneurship. An emphasis is placed on students gaining actual experience working in new ventures through consulting projects and interactions with successful entrepreneurs.

You must complete the requirements for the business entrepreneurship major in conjunction with the requirements for one of the other business majors, which include accounting, business economics, finance, general business, human resource management, management, management information systems, marketing, and operations. In addition to following the requirements of one of the other majors in the College of Business and completing the core requirements of the college, you must complete BA 345, BA 350, BA 440, BA 450 and three courses from one of the following, including at least one marketing and at least one accounting course: ACCT 217 Intro to Taxation, ACCT 310 Cost Accounting, BUSL 356 Law of the Management Process, HRM 420 Human Resource Management, MGT 340 Organizational Behavior—Micro Perspective, MKT 379 Marketing Research, MKT 425 Business to Business Marketing, or MKT 444 Consumer Behavior.

Business Prelaw Major

Major code BB6120

While law schools do not prescribe any rigid undergraduate curriculum, a substantial number of prelaw students choose one of the business fields of study as their major for the baccalaureate degree. You may wish to combine the business prelaw major with one of the other majors in the College of Business if the profession of law is your ultimate career goal.

The business prelaw major recognizes the business and economic emphasis of the practice of law and also provides the breadth of training and philosophical background that is conducive to success in law school.

You must complete the requirements for the business prelaw major in conjunction with the requirements for one of the other business majors, which include accounting, business economics, finance, general business, human resource management, management, management information systems, marketing, and operations. In addition to following the requirements of one of the other majors in the College of Business, you must complete 16 hours at the 300–400 level, including BUSL 356 and four additional hours in business law beyond 356, with the approval of your advisor. Another eight hours should be selected from the following: ACCT 217 Introduction to Taxation, ACCT 317 Federal Income Taxes, ECON 430 Public Finance, HRM 425 Labor Relations, POLS 401 and 402 Constitutional Law, POLS 409 Law Enforcement, POLS 304 State Politics, POLS 374 Great Jurists, POLS 413 Administrative Law, FIN 331 Insurance, and FIN 341 Investments. (You may request from your advisor written permission to substitute a course different from those listed above.) With your advisor's approval, you should elect additional courses in nonbusiness fields, especially American government, American and English history, English, philosophy, interpersonal communication, and in such business fields as finance.

The law faculty in the College of Business is prepared to assist prelaw students in a number of ways:

- 1 Several faculty members give extensive time to counseling students regarding selection of courses, the Law School Admission Test (LSAT), law school application procedures, and other matters of importance to prelegal education.
- 2 LSAT and Law School Data Assembly Service (LSDAS) information is available from the prelaw advisor.
- 3 The department maintains ties with the Criminal Justice Program administered by University College.
- 4 The department maintains ties with faculty and staff at various law schools in the country.

Finance Major

Major code BB6125

The finance major prepares students for the dynamic environment of corporate finance and financial services. Coursework is available in the fields of financial management (both national and international), commercial banking, financial institutions, security markets, and risk and insurance.

Upon graduation, finance majors typically obtain entry-level positions in such areas as banking, insurance, government services, or in an array of industries that employ financial analysts, decision makers, financial strategists, budgeting officers, and planners.

In addition to the B.B.A. core requirements, finance majors must complete 24 hours of finance courses at the 300 and 400 level, including FIN 327, 341, and 461.

General Business Major

Major code BB6122

The general business major prepares professionals on a broad basis for business careers. Five upper-level courses are required from the following areas: accounting, quantitative business analysis, management, management information systems, business law, finance, marketing, operations, business administration, and economics (course selection restricted to ECON 303, 304, 320, 332, 360, or 430). Each course will be in a different functional area or discipline. This major is of special interest if you have a generalized view of business and do not possess strong interests in any one concentration.

Upon graduation, general business majors enter what may be the broadest area of positions of any major within the College of Business. Recent graduates have entered such fields as sales, banking, government services, personnel, advertising, small business entrepreneurship, production, and insurance.

Human Resource Management Major

Major code BB6130

The demand for human resource professionals as strategic partners on the management teams of organizations is growing rapidly.

The human resource management major provides an educational background for those with a career interest in human resource management and/or labor relations in both private and public sector organizations. The major provides basic preparation for entry-level positions in human resource management and the educational background that supports career advancement in this area. It also prepares you for a variety of positions in which knowledge of human resource management is critical to success.

In addition to the B.B.A. requirements, you must complete BUSL 356 Law of the Management Process; HRM 420 Human Resource Management; HRM 425 Labor Relations; MGT 340 Organizational Behavior—Micro Perspective; HRM 430 Compensation Management; HRM 440 Human Resource Training, Development, and Research; HRM 450 Recruitment, Selection, and Appraisal; and HRM 460 Human Resource Policy, Planning, and Information Systems.

HRM 460 may not be taken concurrently with HRM 430, 440, or 450. Therefore, it is important to take MGT 202 during your sophomore year and HRM 420 during your junior year to take the upper-level courses in the required sequence during your senior year.

HRM 430, 440, 450, and 460 are offered only once a year. If you fail to take one of those courses during the year, you must wait to take it the following year. You must complete HRM 420, 425, 430, 440 and 450 before taking HRM 460.

You also are expected to select electives relevant to your career preparation with the help of your advisor. A sample of recommended electives: ACCT 310 Cost Accounting, AAS 225 History of the Black Worker, ECON 320 Labor Economics, ECON 321 Labor Legislation, ISE 422 Seminar in Occupational Safety and Health, INCO 404 Principles and Techniques of Interviewing, PSY 101 General Psychology, PSY 241 Behavioral Measurement, PSY 261 Industrial Psychology, PSY 275 Educational Psychology, PSY 336 Social Psychology, and SOC 101 Introduction to Sociology.

Your advisor helps you to define a realistic career plan, reviewing your interests, strengths, and weaknesses. Your educational program will be developed as an outgrowth of this career plan. We firmly believe that a close working relationship with your faculty advisor is an important factor in ensuring a sound education.

You may want to join the Ohio University Student Human Resource Management Association, a chapter of the Society for Human Resource Management. Presentations by personnel and industrial relations managers and field trips bring members in contact with human resource managers and complement formal classroom studies.

International Business Major

Major code BB6132

To major in international business, you must complete the major requirements in conjunction with any business major except general business or business prelaw. A total of 28 credit hours should combine courses from the following list: (a) GEOG 121 Human Geography, (b) BA 385 Multinational Business, (c) MGT 484 International Comparative Management, (d) FIN 455 International Finance, (e) MKT 441 International Marketing, (f) ECON 340 International Trade, (g) one four-hour course from Tier II Cross-Cultural Perspectives or any foreign language except Latin or Greek at the intermediate level (211).

If the required courses are not offered in a given year, you may substitute any of the following: ECON 341 International Monetary Systems (preferred substitute for FIN 455); ECON 342 International Economic Policy (preferred substitute for BA 385); BUSL 385 International Law or POLS 456 International Organization; GEOG 321 Population Geography; and INCO 410 Cross-Cultural Communication. These courses may be used as a substitute for any missing course upon consultation with your advisor.

Management Major

Major code BB6126

Effective management is increasingly important in today's society because the complexity of the society breeds more and more institutions and organizations. Thus there is, and will continue to be, a strong demand for effective managers to plan activities, to provide direction, and to work effectively with other people to ensure that organizational goals are accomplished.

The management major is designed to provide an educational base for supervisors, executives, and administrators in business, government, and other institutions. In addition to the B.B.A. degree requirements, you must complete 28 hours of management courses numbered above MGT 325. (You may substitute BUSL 356, OPN 340, and/or HRM 420 for an upper-level management course.)

Since managers function in different types of institutions and manage different types of operations, it is strongly recommended that you select a supporting field of study that will provide a strong base for your career development. You will normally select three to five courses in the supporting field in consultation with your advisor.

As a management major, you will be assigned an advisor who will work with you to help define career goals based on your interests, review your strengths and weaknesses, and recommend relevant elective courses. You are expected to meet with your advisor at least once each quarter.

It is recommended that you complete MGT 100 Managing early in your studies. The 28 hours of coursework required for the major will be completed during your junior and senior years and should be selected from courses numbered MGT 300 or 400. You are permitted to take multiple MGT 491 courses as long as the seminars focus on different areas. Check with the departmental office for other courses that can fulfill major requirements.

Management Information Systems Major

Major code BB6137

The management information systems (MIS) major is unique in its emphasis on applying computers to build information systems for business applications; the approach is applications oriented rather than technical. MIS majors are trained to assist with the rapidly progressing computerization of managerial functions and can expect to become expert managerial computer users or intermediaries between users and computer centers.

The hands-on emphasis of the program exposes you to a number of hardware and software solutions to common business problems. This training is designed to produce graduates who can quickly master computer technology so they will be able to adapt quickly to new technology and apply it to business problems as the software and hardware evolve. Being able to communicate with both management and computer specialists makes MIS graduates ideal candidates in organizations that make use of information systems and consulting companies.

In addition to the B.B.A. core curriculum, you must complete MIS 220, 225, 320, 325, 380, 420, and 485. One additional course must be completed from MIS 460, 430, 455, 480, or 491. Elective courses include MIS 230 and 235.

Marketing Major

Major code BB6127

Marketing is the lifeline of any organization. It links the organization with its customers and is vital not only to the survival of the organization but also to the maintenance of the free enterprise system. The marketing curriculum is designed to give you both broad knowledge and an opportunity to specialize. It prepares you to become a marketing professional through coursework in personal selling and sales management, marketing research and consumer behavior, and marketing analysis and management (national and international).

Upon graduation, marketing majors typically obtain direct-entry positions in such areas as sales, retail management, product brand management, market research, and marketing logistics with companies that specialize in analysis and description of consumers and their attitudes and behavior.

In addition to the College of Business core requirements, you must complete 24 hours of marketing courses at the 300–400 level including MKT 358, MKT 379, and MKT 463.

Only 4 credit hours of the 490 sequence can count toward the 24 hours of marketing. Additional hours can count toward business electives.

Business Minor

Minor code ORBSAD

The business minor is open to any student enrolled outside the college of business.

Required courses

ACCT 101	Financial Accounting	4
ACCT 102	Managerial Accounting	4
BUSL 255	Law and Society	4

One of the following five courses:

ECON 381	Intro to Economic Statistics and Econometrics	4
GEOG 271	Intro to Statistics in Geography	5
INCO 301	Empirical Research Applications in Comm.	4
PSY 221	Statistics for the Beh. Sci.	5
QBA 201	Intro to Bus. Statistics	4

All of the following four courses:

FIN 325	Managerial Finance	4
MGT 200	Management	4
MKT 202	Marketing Principles	4
OPN 310	Principles of Operations	4

Total hours: 32

Due to accreditation standards, students outside the college are allowed to complete only 44 hours of courses in the business curriculum.

The Sales Certificate

The College of Business and the Department of Marketing through The Sales Centre at Ohio University jointly sponsor the undergraduate Sales Certificate Program for students in any major who seek understanding about professional selling and development. Completion of this program, which is the equivalent of a minor, results in the certificate and is officially recognized on transcripts upon graduation. Several certificate courses satisfy both tier and College of Business requirements. Be advised that some courses require prerequisites, and plan accordingly.

For admission into the Sales Certificate Program, submit to the Marketing Department the following: 1) a completed application form; 2) a copy of your most recent DARS (Degree Audit Reporting System) result indicating an overall g.p.a. of at least 2.75; 3) your resume demonstrating characteristics that support a successful sales career. In addition you must have a panel interview with Sales Centre faculty and at least one representative from the professional Advisory Council of The Sales Centre. Application forms may be obtained from any college's undergraduate office.

Admission to this program is competitive and not guaranteed to all who meet the admission criteria. Students with the highest probability of success will be admitted up to the enrollment ceiling. Members of groups historically underrepresented in business will receive special consideration.

Each quarter those accepted into the Sales Certificate program will have their progress tracked by DARS. An overall g.p.a. of 2.5 in certificate courses is required. Students will need to consult the Director of The Sales Centre before the deadline for graduation to ensure that the certificate will be awarded. For more information contact the director or associate director of The Sales Centre.

Required courses

MKT 358	Professional Selling	4
MKT 498	Sales Internship	4

Advanced Courses (must select two):

MKT 425	Business to Business Marketing	4
MKT 458	Advanced Topics in Sales (Sales Management)	4
MKT 491	Current Topics in Sales: Executive in Residence	4

Communication Requirement (must select one):

INCO 215	Argumentative Analysis and Advocacy	4
INCO 206	Communication in Interpersonal Relationships	4

In addition to the courses listed above, two cross-disciplinary courses (8 hours) are needed to fulfill the 28 hour requirement. The following courses are suggested*:

ET 280	Engineering and Technology-Overview	4 (2A)
IT 110	Intro to Manufacturing	4 (2A)
PHIL 130	Intro to Ethics	4 (2H)
THAR 113	Acting Fundamentals I	4
THAR 170	The Theater Experience	4 (2H)

*Other cross-disciplinary courses that support the certificate curriculum may be substituted with the approval of the director of The Sales Centre.

Total hours: 28

College of Communication

Radio-Television Building 497

Kathy A. Krendl
Dean

Phyllis Bernt
Associate Dean

Ronald K. Pittman
Assistant Dean

The College of Communication includes the J. Warren McClure School of Communication Systems Management, the School of Interpersonal Communication, the E. W. Scripps School of Journalism, the School of Telecommunications, and the School of Visual Communication.

The college was created to meet more fully the communication needs of a changing society. New forms of communication, the growth of communication systems, and the need for better communication among people, races, economic groups, and nations were factors in Ohio University's decision to prepare graduates both for traditional roles and for a variety of new responsibilities.

The college is equipped to train graduates for professional careers in journalism, telecommunications, voice and data communication, visual communication, and organizational and interpersonal communication. The college operates on the assumption that professional competency in these areas calls for the highest proficiency in the field of specialization, plus the broadest liberal education in other disciplines.

The E. W. Scripps School of Journalism is fully accredited, with undergraduate sequences in advertising, broadcast news, news writing and editing, magazine journalism, and public relations.

The journalism school is recognized nationally and by the Ohio Board of Regents for the quality of its more than 200 annual graduates who move into professional careers on leading newspapers, magazines, and news-gathering organizations, as well as into advertising and public relations positions. Careers take them to all parts of the world.

The School of Telecommunications is one of the largest broadcasting and electronic media programs in the United States, and national surveys have ranked it as one of the best in the country. It has received Program Excellence and Academic Challenge awards from the Ohio Board of Regents for the quality of its instruction.

Study in telecommunications includes a broad-based education that prepares students for careers in the electronic media, including radio and television, cable, corporate media, and studio recording. Many opportunities are provided for hands-on experience while on campus, including a campus radio network, a video production unit, and public broadcasting stations WOUB AM-FM-TV. A year-round internship program places qualified advanced students in one-term, full-time media jobs in the U.S. and abroad.

The School of Interpersonal Communication offers coursework in four program tracks: communication in human services, legal communication, organizational communication, and political communication.

The School of Visual Communication prepares students for careers in informational graphics/publication design, interactive multimedia, photo journalism and photo illustration. Students graduating from the program are qualified to pursue careers in newspapers and magazines.

The J. Warren McClure School of Communication Systems Management is a unique program that educates students about the design, management, and uses of advanced communication technologies. The only program of its kind in Ohio, and one of very few in the nation, the school offers a four-year baccalaureate program leading to a degree in communication systems management. Coursework centers on the business applications of voice and data networks and services. The interdisciplinary approach, a highly successful paid internship program, and substantial hands-on laboratory experience prepare students for careers managing business communication networks, as well as with major telephone companies, consulting firms, and government agencies.

All programs of study at the undergraduate level lead to the bachelor's degree. More detailed descriptions and the requirements for the various majors offered in the schools are given in the pages immediately following.

Graduate programs leading to M.A., M.S., and Ph.D. degrees are available in interpersonal communication, journalism, telecommunications, and visual communication. These programs are described in detail in the *Graduate Catalog*.

Admission Requirements

Freshman admission to the College of Communication's J. Warren McClure School of Communication Systems Management, School of Interpersonal Communication, E. W. Scripps School of Journalism, School of Telecommunications, and School of Visual Communication is based on high school class rank, test scores, and professional activities, as well as availability of openings in the academic unit to which you are applying.

You may receive additional consideration if you have demonstrated talent or experience, or if you come from a historically underrepresented group. For information on admission procedures, contact the school director.

Transfer Policy

Consult the transfer requirements of the individual schools for specific requirements. In general, all students wishing to transfer into the college must have earned at least 48 quarter hours (32 semester hours) with a g.p.a. of at least 2.5. Individual schools may have more rigorous standards. You may receive additional consideration if you have demonstrated talent or experience, or if you come from a historically underrepresented group.

Students transferring into one of the schools within the College of Communication will be required to complete the major requirements in effect during the academic year of the approved transfer.

This regulation applies to:

Students transferring from other universities.

Students transferring from other colleges within Ohio University.

Students transferring from one school to another within the College of Communication.

Note: After transferring into the College of Communication, you must complete a minimum of 48 credit hours as a resident of the school conferring the degree.

Degrees and Requirements

The College of Communication offers curricula leading to the degrees of Bachelor of Science in Communication (interpersonal communication, telecommunications, communication systems management), Bachelor of Science in Journalism, and Bachelor of Science in Visual Communication.

As a candidate for a degree in the College of Communication, you must satisfy the requirements established by the program in which you are enrolled. Additionally, you are required to meet the General Education Requirements that have been established by Ohio University. Most university general education courses can satisfy both program and university requirements. Consult your advisor on the dual application of those courses.

You must also have a minimum total of 192 earned hours with a 2.0 accumulative grade-point average (g.p.a.) and a 2.0 g.p.a. in your major. Only the final hours and grades earned when courses are retaken count toward graduation.

After transferring into the College of Communication, you must complete a minimum of 48 credit hours as a resident of the school conferring the degree. In certain cases, exceptions may be made by the academic dean in consultation with the director of the school you plan to enter.

Advising

When you enter a school in the College of Communication, you are assigned an academic advisor on the basis of your interests. Your faculty advisor assists in the preparation of a schedule each quarter so that you select the proper sequence of courses in the major and appropriately related courses. However, you are responsible for seeing that all degree requirements are met.

Scholarships

Scholarships sponsored by each of the five schools within the College of Communication for qualified undergraduate students are available on an annual basis. For more information, contact the scholarship chair of each school or the dean's office.

Political Communication Certificate Program

The College of Communication and the College of Arts and Sciences jointly sponsor the undergraduate Political Communication Certificate Program for students in any major program who want to gain knowledge and understanding about the arena of political communication. Political communication encompasses the interactions of political figures, political interests, the press, and the public in their attempts to shape political decisions. Completion of this program is officially recognized on your transcript when you graduate, and a certificate is awarded. See the program listing in the Arts and Sciences section.

J. Warren McClure

School of Communication Systems Management

Hans Kruse, *Director*

Bachelor of Science in Communication (BSC) Communication Systems Management Major code BC5329

Founded in the fall of 1980 as the Center for Communication Management, this program was the first of its type in Ohio and only the second in the United States at the baccalaureate level. It is a multidisciplinary major, with students taking courses in nine other schools and departments in addition to the J. Warren McClure School of Communication Systems Management. The program was designed with the assistance of the International Communications Association and other telecommunications professionals.

Purposes and Objectives

The purpose of the J. Warren McClure School of Communication Systems Management is to provide academic studies and research for the training of professionals in the field of voice/data telecommunications. These communication professionals fill a large number of roles: they design, supervise, and operate specialized communication systems for private industry and government; they design and market communication services on behalf of major telephone companies, cellular providers, and equipment vendors; and they apply their expertise on behalf of consulting firms and regulatory agencies.

Until the 1970s, professionals in the field were trained primarily on the job. But with the rapid expansion of technology and its applications, universities were asked to provide quality educational programs in this field. The Ohio University program is the result of five years of consultation and planning with experts at both the academic and applied levels.

The program is based on the philosophy that the communication professional must have broad basic knowledge and skill in such diverse areas as technology, business, computer systems, and written and oral communication.

While working toward their degrees, students are encouraged to gain practical experience through lab exercises, case studies, internships, and practica. Students are given opportunities to observe and use communication systems (voice, image, and data) in the school's laboratories and through tours of the university's Communication Network Services installation and other facilities.

Transfer Students

The following policy applies to students wishing to transfer from other universities, from other colleges within Ohio University, or from other schools within the College of Communication:

You must meet the college transfer requirements (completion of 48 quarter hours, or 32 semester hours, with an earned g.p.a. of at least 2.5).

You are required to meet with the school's director before applying for transfer.

You are required to complete a Transfer Information Sheet, available in the school office, and to supply your latest DARS report or transcript.

You may apply for a transfer at any time.

Enrollment in the school is limited to promote quality instruction and effective advising. Should space become a problem, other transfer procedures may be adopted.

Internships and Practica

Hands-on experience is an important part of your course of study, and you are strongly encouraged to fulfill this component of your studies through an internship or practicum. Course credit for either an internship or a practicum applies toward the 45 hours of COMT courses required of all majors. Credit toward the 45 hours is not awarded for both an internship and a practicum.

The school has a strong internship program with more than 30 sponsoring organizations. Internships are usually 12 weeks long and take place off campus during the summer; other arrangements are possible. You are treated as a staff member and are paid for your efforts. Internships are awarded on a competitive basis and are subject to availability. You must be majoring in the program, have completed at least 90 hours, including specified courses in the program (see the director for a list), and have one quarter remaining on campus after the internship is completed. Individual internship sponsors establish g.p.a. requirements. You must enroll in the university for academic credit during the internship and may earn up to 12 hours of course credit for completion of all internship requirements; a maximum of 5 hours of course credit will apply to the 45-hour major requirement. Apply to the internship coordinator for consideration.

The school also provides practicum experience. You may choose to complete a practicum project under the supervision of a school faculty member. Practica are conducted on campus, either within the school or for other units, and are unpaid. You must enroll in the university for academic credit during the quarter in which the practicum is conducted. A maximum of 5 hours of course credit will apply to the 45-hour major requirement. Practica are arranged with individual faculty members.

If you are unable to complete either an internship or a practicum, you may complete the 45-hour major requirement through an additional COMT elective course.

Curricula and Requirements

A communication professional is asked to have reasonable familiarity with a number of concerns, both general and technical. The communication management major requires a multidisciplinary approach involving courses in other participating schools and departments, in addition to coursework offered by the school itself.

All majors in the program must earn a grade of C (2.0) or better in COMT 214, COMT 220, COMT 222, and COMT 302. If you earn a grade below C in any of these courses, you will not be permitted to enroll in upper-division COMT courses. Courses may be retaken according to university policy.

Additionally, to remain active in the major, you must maintain a 2.0 average in all required courses, not solely those labeled as communication management courses.

You are required to complete a secondary area of concentration. These areas traditionally have been in management/business administration, computer science, or technical areas. Other areas are possible as well. You develop your specific secondary area of concentration with your advisor's approval after completing COMT 214. Further information is available from the school office.

Each major must complete the core courses, focus area requirements, and other university requirements.

Requirements are structured to meet simultaneously the university's General Education Requirements and the needs of the major field.

Core Courses

1 General

ECON 103, 104	Principles	8
	Freshman Tier I English	5
	Tier I mathematics	4-5
ENG 305J	Technical writing	4
	Statistics	4-5
	Other Tier requirements	

2 Technical and Business

ACCT 101, 102	Accounting	8
BU5L 255	Law and Society	4
CS 120	Comp. Literacy	3
MGT 202	Management	4
MKT 202	Marketing Principles	4
	One computer language	5

3 General Communication

INCO 101, 103, 234		12
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4 Communication Systems Management

COMT 214, 220, 222, 302, 304, 310, 312, 444, and 14 hours of additional COMT courses (including up to 5 hours of COMT 401 or 495 but excluding COMT 431 and 493)		45
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5 Secondary area of concentration	20-25
Specific courses dependent upon area of concentration	

6 Electives

As recommended by advisor

School of Interpersonal Communication

Sue DeWine, Director

The School of Interpersonal Communication offers a liberal education, emphasizing the scientific and artistic basis of communication. It is firmly committed to providing quality instruction in the theoretical bases of human communication and the application of theory within a number of specific contexts. Students choose areas of specialization and specific courses that can lead to professional or preprofessional competence in such fields as training and human resources, foreign service, law, politics and government, human services, labor-management relations, personnel, campaign and propaganda administration, and poll and survey research.

Students majoring in interpersonal communication must choose one area of specialization from the following possible emphases or major tracks: organizational communication, political communication, communication in human services, or legal communication. In addition to satisfying the track requirement, all majors must have a 28-hour related area that complements the coursework composing the major track. The related area is designed in consultation with a faculty advisor who must approve the coursework composing the related area. Through its advising program, the School of Interpersonal Communication makes every effort to identify the goals of its students and to design academically sound programs that address these goals.

Special Opportunities

Internship Program

For you to have an opportunity to apply the theory of the classroom to the practical world of the workplace, the School of Interpersonal Communication supports a large and carefully supervised internship program. During the academic year, about 30 interpersonal communication majors serve as student interns within a wide variety of occupational settings. Many of these internships are identified and developed by the students. The period of an internship is usually 10 weeks, and 1 to 15 credits may be earned. To qualify for an internship, you must be a major in interpersonal communication and must satisfy a series of school requirements. For more information regarding this program, contact the school's internship director.

Forensics Program

Through its forensics program, the School of Interpersonal Communication provides the opportunity for all university students to meet outstanding undergraduates from 300 or more colleges or universities in intellectual competition. Approximately 20 tournaments at other schools and several held on campus enable you to develop skills in debate, extemporaneous speaking, oratory, rhetorical criticism, and oral interpretation. Excellence in scholarship and superior performance in speech communication are rewarded in several ways. Delta Sigma Rho-Tau Kappa Alpha national honorary is open to students in the upper third of their classes who excel in forensics. The Lorin C. Staats Award is

given to the outstanding senior who has participated with distinction in several forensic areas. The outstanding junior or senior in debate receives the Francis McVicker Maxwell Award. You need not be an interpersonal communication major to participate in the forensics program. For more information regarding Ohio University forensics, contact the director of the forensics program.

Preparation for Law School

The Association of American Law Schools states that the goals of prelegal education are: (1) comprehension and expression in words, (2) critical understanding of the human institutions and values with which the law deals, and (3) creative powers in thinking. As a student in the School of Interpersonal Communication who plans to enter law or paralegal school, you will find excellent opportunities for meeting these goals. In addition, all Ohio law schools require an undergraduate degree from an approved institution before admission.

As a prelaw student in interpersonal communication, you will be individually counseled and advised in developing a total course of study to meet the intellectual challenges of the legal profession. Suggested areas of study include communication theory and practice, argumentation, legal oratory and communication, English composition and literature, history, political science, business law, behavioral sciences, humanities, comparative arts, economics, and philosophy.

Prelaw students are encouraged to investigate the legal communication track of the interpersonal communication major.

Communication Research Center

This center for the development and distribution of communication research studies coordinates the research activity of scholars in the full range of communication disciplines and seeks federal, state, and private grants to support its research activity. A research lab houses videotaping equipment to study interpersonal communication interactions.

Transfer Requirements

If you wish to transfer into the School of Interpersonal Communication, you must have earned at least 48 quarter hours (32 semester hours) of coursework with a minimum g.p.a. of 2.5 to be considered for admission. You may be given additional consideration if you have special talents or are a member of a historically underrepresented group. You must submit a School of Interpersonal Communication Transfer Form by the end of the second week of each quarter. Approval of transfer requests depends on the ratio of applications to the number of available openings in the program. Because the number of applications may exceed the number of openings, simply meeting the minimum transfer requirements does not guarantee approval of a transfer request.

Degree Requirements

In addition to the three sets of tier requirements and the 192 total hours specified by the university, all majors in the School of Interpersonal Communication must complete (1) a 24-hour sequence of core courses, (2) a set of courses that defines one of the four major tracks offered by the school, and (3) a 28-hour related area approved by a faculty advisor and designed to complement and supplement the substance of the major track. Only one approved course in the major field can be applied toward the Tier II requirement.

Core Courses

All majors in the School of Interpersonal Communication must complete a 24-hour sequence of six courses composing a common core of knowledge. It is the intent of this requirement to provide all majors with foundation work upon which areas of specialization can be built. A grade of C or better is required in each course in the core. The six core courses are:

INCO 101	Fundamentals of Human Communication	4
INCO 103	Public Speaking	4
INCO 205	Group Discussion	4
INCO 206	Communication in Interpersonal Relationships	4
INCO 234	Introduction to Communication Theory	4
INCO 342	Communication and Persuasion	4

Major Track Requirements

It is the intent of the School of Interpersonal Communication to provide its majors with the best features of liberal arts and professional education. Through the tier requirements of the university and the core course requirements of the school, you are taught problem solving, thinking paradigms, and creative expression. It is through the major track that you will establish an area of specialization. The available tracks provide training in a broad spectrum of human communication. While the tracks provide focus to the major, they typically are not intended to be career specific. Instead, each track provides instruction applicable to a variety of potential careers subsumed by the content domain of the specific track. You are expected to satisfy the requirements of at least one of the following four tracks. You should select a track in consultation with your faculty advisor.

Communication in Human Services Major code BC5339

Human service professionals and the agencies in which they work are concerned with meeting people's needs in such areas as physical and psychological health, child and family services, and social and economic welfare. Given the nature of their work, these professionals and agencies confront special considerations necessary to understanding and engaging in human communication. The communication in human services track in interpersonal communication is designed to provide you with broad exposure to these considerations. Courses emphasize the role of human communication in family dynamics and in health, communication processes in human services agencies, and important communication skills for the human service professions.

1 Required Courses

INCO 240	Health Communication	4
INCO 422	Communication in the Family	4

2 Three courses selected from the following:

INCO 304	Principles and Techniques of Interviewing	4
INCO 306	Interpersonal Conflict Management	4
INCO 406	Advanced Interpersonal Communication	4
INCO 410	Cross-Cultural Communication	4
INCO 420	Gender and Communication	4
INCO 430	Communication and the Campaign	4

Legal Communication
Major code BC5341

This track is intended primarily as a preprofessional degree program for students contemplating careers within the legal profession. The approach is to emphasize the role of communication in general and argumentation and debate in particular. The courtroom oratorical practices of such masters as Cicero, Strafford, Erskine, Hastings, Marshall, Webster, and Darrow are considered in detail. Other topics receiving emphasis within the track include a survey of rhetorical theory from the Golden Age of Greece to the present; interviewing principles and techniques; ethical and rhetorical implications of constitutional guarantees on political, social, and religious speech; and the theory, research, and practice of analyzing human messages produced in natural settings. Prelaw students should prepare broadly for a legal career, and this track provides one means of accomplishing such preparation.

1 Required Courses

INCO 215	Argumentative Analysis and Advocacy	4
INCO 250	Introduction to Rhetorical Theory	4
INCO 304	Principles and Techniques of Interviewing	4
INCO 315	Legal Argumentation	4
INCO 351	Courtroom and Rhetoric	4
INCO 442	Responsibilities and Freedom of Speech in Communication	4

Organizational Communication
Major code BC5342

This major track provides a challenging program of study for students aiming for professional careers and administrative positions in business, educational, governmental, industrial, labor, or other organizational units. The goal of this track is to provide a blend of theory- and experience-based instructional opportunities. The acquisition of communication skills and research techniques vital to the contemporary organization is emphasized within the track. These include public speaking, interviewing, small-group problem solving, campaign direction, and conference

leadership, as well as historical, descriptive, and experimental methods in both field and laboratory settings. Recent graduates have secured public and private sector employment in such areas as training, personnel, organizational development, public affairs, fund raising, and information management.

1 Required Courses

INCO 245	Introduction to Organizational Communication	4
INCO 301	Empirical Research Applications in Comm.	4
INCO 445	Practicum in Organizational Comm.	4

2 Three courses selected from the following:

INCO 300	Field Research Methods in Communication	4
INCO 304	Principles and Techniques of Interviewing	4
INCO 405	Principles of Conference Leadership	4
INCO 421	Instructional Training and Development in Comm.	4
INCO 430	Communication and the Campaign	4

Political Communication
Major code BC5343

If you have interests or career goals in some aspects of politics, you will find the political communication track appealing. Coursework incorporates skills in both the theories of political communication and its practice by noteworthy figures of various historical periods. Such areas as argumentation and debate; argumentation in the legal setting; persuasive strategies characteristic of current political communication; and the practices of such individuals as Hitler, Mussolini, Lenin, Wilson, Churchill, Roosevelt, Kennedy, and King receive attention. Theory-based topics include symbolic politics, the place of myth in politics, and the political elements of film, literature, and television.

1 Required Courses

INCO 215	Argumentative Analysis and Advocacy	4
INCO 352	Political Rhetoric	4
INCO 353	Contemporary Rhetoric	4

2 Three courses selected from the following:

INCO 250	Introduction to Rhetorical Theory	4
INCO 300	Field Research Methods in Communication	4
INCO 301	Empirical Research Applications in Comm.	4
INCO 315	Legal Argumentation	4
INCO 430	Communication and the Campaign	4
INCO 442	Respon. and Freedom of Speech in Comm.	4

Related Area Requirements

In addition to core courses and major-track requirements, all interpersonal communication majors must complete a 28-hour sequence in a related area. It is the function of this related area to complement or supplement the work of the major track. Related areas should be selected early, but not until the major track is identified. The coursework composing the related area can come from one academic department or from several, but it must be from outside the school. Collectively, the related area coursework should constitute a unified body of knowledge having a definite relationship with the major track you have chosen. At least 16 of the 28 hours should be courses above the 200 level. All related areas must be approved by your faculty advisor.

Minor in Interpersonal Communication

Minor code ORINCO

The minor in interpersonal communication is available to students in all disciplines.

Required Core Courses (20 hrs)

INCO 101, 103, 205, 206, 342

Elective Courses (12 hrs)

Select any three:

INCO 215, 220, 304, 351, 352, 353, 405, 420

Total Hours: 32

Political Communication Certificate Program

The Colleges of Communications and Arts and Sciences jointly sponsor a certificate in political communication for students who wish to supplement their undergraduate major with an inquiry into the arena of political communication. The program is open to any undergraduate student in the university.

To receive a certificate in political communication, you must complete POCO 201 Introduction to Political Communication and POCO 401 Seminar in Political Communication, as well as an additional 22 quarter hours from the list of approved courses.

For a more detailed description, see the program listing in the College of Arts and Sciences section.

E. W. Scripps School of Journalism

Daniel Riffe, Director

Eddith Dashiell, Assistant Director

Patrick Washburn, Assistant Director

Bachelor of Science in Journalism

Ohio University's E. W. Scripps School of Journalism is accredited by the Accrediting Council on Education in Journalism and Mass Communication. It is one of a limited number of accredited schools and departments of journalism in the United States.

Mission Statement

The E. W. Scripps School of Journalism is dedicated to the needs of its students; to excellence in teaching, advising, service, and research; and to leadership in journalism education. The school stresses the need for a liberal arts foundation combined with a professional education and practical experience for its students. The goals are to search for truth; to develop critical analysis, thinking, writing, and speaking abilities; to enhance free, responsible, and effective expression of ideas.

To that end, the E. W. Scripps School of Journalism:

- stresses the importance of the First Amendment;
- fosters the highest standards of journalism ethics;
- prepares students to enter the journalism professions;
- provides a liaison between students and professionals;
- involves students and faculty in an extended university;
- values an international presence and perspective;
- attracts, nurtures, and retains a diverse group of outstanding students;
- expands scholarly activity to enhance the body of knowledge within journalism;
- supports a diverse faculty offering an array of contributions;
- offers an environment that equips students to live in a diverse world; and
- upholds the university mission of commitment to educational excellence through focus on the individual student.

The School

Journalism today is a profession—like medicine, law, teaching, or engineering. It requires its practitioners to be educated culturally and trained professionally. Blending the liberal arts with professional courses, Ohio University journalism students take approximately three-fourths of their courses outside the professional school.

Five sequences are offered, all leading to the Bachelor of Science in Journalism degree: advertising, magazine journalism, news writing and editing, public relations, and broadcast news.

While there is overlap between journalism and telecommunications in broadcast news career preparation, students interested in being news writers, reporters, and anchors should enroll in the E. W. Scripps School of Journalism, and students interested in studio and field production should enroll in the School of Telecommunications.

While working toward their degree, students sometimes serve on the staffs of local newspapers. The student staff members of the *Athens Messenger* gather and write news, edit local and wire copy, write headlines, and prepare copy and layouts. This training prepares students to enter the profession immediately after graduation.

Practical experience also is available on a laboratory magazine, *Southeast Ohio*, and in graphics and advertising laboratories. Many students add to their experience by writing for and editing *The Post*, the independent daily campus newspaper; the *Athena*, the university yearbook; or *The Ohio Journalist*, the school's alumni publication.

In broadcast news, students get practical experience in preparing and broadcasting news over WOUB AM, FM, and TV, the university's radio and television stations, and over ACTV-7, the local cable television system.

Advertising and public relations students gain practical experience through internships with agencies, corporations, hospitals, charitable groups, newspapers, magazines, and broadcast stations. Students comprise the advertising staff of *Southeast Ohio* magazine and serve in public relations capacities with university and community organizations.

Admission Requirements

The E. W. Scripps School of Journalism admits only the best academically and professionally qualified students who normally rank in the top 15 percent of their high school class and meet minimum standardized test score requirements. Students with a lower class ranking will be considered if they have outstanding SAT or ACT scores. Students demonstrating notable talent or experience and members of historically underrepresented groups will be given special consideration.

Transfer Students

The following policy has been established by the E. W. Scripps School of Journalism as a means of selecting the best qualified students for the program. The academic quality of the curriculum depends in part on maintaining enrollment at a number that may be effectively served by our faculty. The school is dedicated to top-quality instruction, and this policy is one means through which that goal is achieved.

- 1 Approximately 40 transfer students will be accepted annually into the E. W. Scripps School of Journalism.
- 2 Transfer students from within or outside Ohio University will be considered only when they have at least 48 quarter hours (32 semester hours) with a minimum 2.5 g.p.a.
- 3 In addition to grades, consideration will be given to test scores, journalism grades, journalism background in a program offered by the school (professional, college, or high school), letters of recommendation, and personal statements of intent.
- 4 Transfer applications will be considered for admission only in the fall quarter.
- 5 You may apply for transfer only through use of the school's Application for Transfer form, obtained by writing to the admissions committee.
- 6 Official transcripts, letters, and other supporting documents must be attached to the Application for Transfer at the time of its submission.

7 Evaluations will be conducted and decisions made by a special faculty committee.

8 Your application for transfer should be received by the School of Journalism no later than the closing date of the winter quarter. At this time, you may be granted provisional admittance if you will have achieved the required 48 quarter hours by the time of fall quarter admission.

Internship Program

Consistent with its policy of combining classwork with practical training, the E. W. Scripps School of Journalism offers an internship program to qualified students. Many of these internships are developed by students. The period of internship typically is 10 weeks. Interns are provided with as varied hands-on experience in media-related organizations as possible and may be paid. Internship opportunities are located throughout the nation and abroad.

Curricula and Requirements

The Accrediting Council on Education in Journalism and Mass Communication includes among its accrediting standards the following provision: generally, three-fourths of the student's program should consist of courses in the liberal arts and sciences and one-fourth in professional courses in journalism.

Journalism students at Ohio University meet the above provision largely by fulfilling two sets of requirements: general and specialization area requirements. The first of these provides for a liberal arts and sciences core for all students, as follows:

- Political Science (2 qtrs)
- Sociology and/or Anthropology (2 qtrs)
- Economics (2 qtrs)
- Psychology (1 qtr) (except PSY 120)
- History (2 qtrs)
- English (2 qtrs) (one from approved school list)
- Statistics (1 qtr) (from approved school list)
- Philosophy (2 qtrs) (one must be PHIL 120 or 320)
- Foreign Language (3 qtrs basic sequence or 1 qtr advanced) or Natural Science (3 qtrs as approved by advisor)
- Comparative Arts/Fine Arts (nonperformance courses) (2 qtrs) or African American and/or Women's Studies (2 qtrs)
- Speech (1 qtr) INCO 103
- Computer Science (1 qtr) CS 120

To this liberal base, which should be the focus of the freshman year, students add courses in a desired area of specialization. This requirement may be filled by completing any one of four options:

- 1 A minimum of 36 hours in a single department within the College of Arts and Sciences (usually structured in accordance with the major requirements of the selected department).
- 2 A minimum of 18 approved hours in each of two departments in Arts and Sciences.
- 3 A minimum of 18 approved hours in one Arts and Sciences department and 18 advisor-approved hours in any other series of related courses.
- 4 A minimum of 20 approved hours in one Arts and Sciences department and 16 advisor-approved hours in any other series of related courses.

Additional nonjournalism courses are required in some sequences. No course may be counted in more than one type of requirement. For example, a course used to meet a general requirement may not be applied to a sequence or specialization area requirement as well.

To assure the liberal emphasis of the overall program, the professional content of the B.S.J. is limited to 55 quarter hours of the 192 hours required for the degree. Credits for all courses in journalism, telecommunications, photography, and visual communication should total at least 45 hours and not more than 55 hours. All professional hours beyond 55 must be compensated for by nonprofessional hours over the required 192-hour total. Nonjournalism courses that are required in sequences are not to be counted as part of the 45–55 total professional hours.

Standards

- 1 To qualify for admission to JOUR 231, you must achieve at least 25 words per minute on a typing examination. This exam is administered on the first day of the JOUR 231 class.
- 2 To remain active in the B.S.J. program, you must earn at least a C in all core courses.
- 3 No core course may be taken more than twice.

Journalism Sequences

All journalism majors complete a basic 22-hour core of six courses: JOUR 133 Precision Language for Journalists (unless waived) (4); JOUR 221 Graphics (5); JOUR 231 News Writing (4); JOUR 233 Information Gathering (3); JOUR 411 Newspaper and Communications Law (3); and JOUR 412 Ethics, Mass Media, and Society (3). A grade of C or better is required in all core courses.

JOUR 105 Introduction to Mass Communication, a freshman course, is optional.

Additional requirements for the various sequences are as follows:

Advertising Management

Major code BJ6932

JOUR 250	Advertising Principles	4
JOUR 321	Print Advert. and Layout	4
JOUR 323	Print Advertising Prac. or approved internship	2
JOUR 375	Advert. Media Planning and Buying	4
JOUR 450	Advert. Copy Writing	3
JOUR 482	R-TV Advert. and Mgt.	4
JOUR 486	Advertising Campaigns	5
MKT 202	Marketing Principles	4

Journalism electives to make 45–55 hours

Broadcast News

Major code BJ6936

JOUR 350	Radio Broadcast News	4
JOUR 352	TV Broadcast News	4
JOUR 353	Broadcast News Prac. or approved internship	2
JOUR 452	Broadcast News Production	4
JOUR 455	Seminar in Broadcast News	3
JOUR 458	TV News Practice	4
JOUR 459	Advanced TV News Practice	3
JOUR 464	Reporting Public Affairs	3

Journalism electives to make 45–55 hours

Magazine Journalism

Major code BJ6933

JOUR 430	Mag. Editing and Prod.	4
JOUR 431	Mag. Practice	3
JOUR 441	Mag. Feature Writing	4

Select two of the following:

JOUR 331	Contemporary Issues	3
JOUR 350	Radio Broadcast News	4
JOUR 363	Review and Criticism	3
JOUR 441	Mag. Feature Writing (second time with different instructor)	4
JOUR 442	Adv. Feature Writing	3
JOUR 450	Copywriting	3
JOUR 464	Reporting Public Affairs	3

Select one of the following:

JOUR 235	Picture Editing	3
JOUR 333	News Editing	4
JOUR 407	Electronic Publishing	4
JOUR 432	Specialized Bus. Mags.	3
JOUR 443	Advanced Mag. Editing	3
JOUR 483	Mag. Pub. and Mgt.	3

Journalism electives to make 45–55 hours

News Writing and Editing

Major code BJ6934

JOUR 311	Hist. of Am. Journalism	4
JOUR 331	Reporting Contemp. Issues	3
JOUR 333	News Editing	4
JOUR 332 and JOUR 334	Reporting Practicum Editing Practicum or approved internship	2 2
JOUR 464	Reporting Public Affairs	3

Select two of the following:

JOUR 350	Radio Broadcast News	4
JOUR 363	Review and Criticism	3
JOUR 441J	Mag. Feature Writing	4
JOUR 442	Adv. Mag. Feature Writing	3
JOUR 465	Editorial Page	3
JOUR 468	Column Writing	3
JOUR 470	Sportswriting	3

Journalism electives to make 45–55 hours

Public Relations

Major code BJ6935

JOUR 270	Intro to Public Relations	3
JOUR 332	Reporting Prac. or approved internship	2
JOUR 333	News Editing	4
JOUR 370	Media Relations and Publicity	4
JOUR 471	PR Principles	4
JOUR 472	Advanced PR	4

Select two of the following:

JOUR 331	Reporting Contemp. Issues	3
JOUR 350	Radio Broadcast News	4
JOUR 430	Mag. Editing and Prod.	4
JOUR 441J	Mag. Feature Writing	4
JOUR 450	Advert. Copy Writing	3

Select one course from:

SOC 210, 211, 412, 413, or 414	4
Journalism electives to make 45–55 hours	

Carr Van Anda Program

If you are a junior with a 3.0 accumulative g.p.a. in journalism and a 2.5 accumulative g.p.a. in all work, you may elect a sequence making up your own program in journalism: the basic core of six courses plus your choice of journalism courses to equal 45–55 hours. The program must have the approval of your advisor and the director of the E. W. Scripps School of Journalism. Formal application is necessary.

School of Telecommunications

George Korn, Director

Drew McDaniel, Associate Director

Joseph Richie, Associate Director

The School of Telecommunications offers programs of study leading to bachelor's, master's, and doctoral degrees. The baccalaureate program is a professional degree program designed to prepare students for careers in all aspects of telecommunications. First-year students are allowed direct entry into sequences in audio production, video production, management, and media studies. While there is overlap between journalism and telecommunications in broadcast news career preparation, students interested in studio and field production should enroll in the School of Telecommunications, and those interested in news writing, reporting, and anchoring should enroll in the E. W. Scripps School of Journalism. The school also offers an Honors Tutorial Program to qualified students. (See the Honors Tutorial College section.)

The classroom and laboratory experiences of students are augmented by a variety of practical experiences, including work with Athens Video Works, the school's production unit, the All-Campus Radio Network, and the three university owned and operated stations: WOUB-AM, WOUB-FM, and WOUB-TV. Credit for such experiences is granted through TCOM 390.

Opportunities for internships, placement, and professional involvement are supplemented by the school's participation with the Ohio Association of Broadcasters, the Ohio Cable Television Association, the International Radio-Television Society, the National Association of Television Program Executives, and the National Association of Broadcasters.

Scholarships of \$1,000 a year are awarded to qualified freshmen. In addition, Deans Scholarships and School of Telecommunications awards are available to majors.

Ohio University's Zanesville and Southern Campuses offer an associate's degree program in electronic media, including a sequence in broadcast engineering. This program offers a smaller, more intimate setting for the first two years of university coursework. For additional information, see "Electronic Media" in the University College section.

Transfer Policy

Because the School of Telecommunications sets high academic standards and limits enrollment, students from other universities or programs at Ohio University wishing to transfer into the school must show strong academic performance over their last three quarters. If you have a 3.0 g.p.a. for the past 48 hours, you will be admitted at any time. If you have professional experience in the media and a g.p.a. between 2.5 and 2.99 for the past 48 credit hours, you may file a petition. A limited number of these students will be selected for admission each quarter.

If you transfer into the school, you must be enrolled for one academic year (three consecutive quarters) or the final 48 hours of credit earned to graduate from the program.

Bachelor's Degree in Telecommunications

General Requirements for All Majors

1 Arts and humanities. Twenty quarter hours, with at least eight hours of 300- to 400-level courses (or 200-level or above for language courses). Courses include Tier I freshman and junior composition with the balance of the hours chosen from art, art history, classical languages, comparative arts, dance, English, film, humanities, modern languages, music, philosophy, and theater.

2 Social sciences. Twenty quarter hours, with at least eight hours of 300- to 400-level courses. Courses may be chosen from anthropology, classical archaeology, economics, history, international studies, management, marketing, political science, psychology, and sociology.

3 Communication sciences. Twenty quarter hours, with at least eight hours of 300- to 400-level courses (or 200-level or above for language courses). Courses may be chosen from classical languages, computer science, communication systems management, hearing and speech sciences, interpersonal communication, journalism, linguistics, modern languages, and visual communication.

4 Mathematics and/or natural sciences. Tier I quantitative skills plus five quarter hours chosen from astronomy, biological sciences, chemistry, geology, mathematics, physical science, physics, physical geography, and environmental and plant biology.

University General Education Tier II, African American Studies, and University Professor courses can be used to fulfill general requirements. You must fulfill the Tier III requirement.

5 Telecommunications. The following core courses are required of all majors:

TCOM 100	Telecommunications and Global Living	4
TCOM 110	Telecomm. Writing and Production Planning	4
TCOM 201	Media, Culture, and Technology I	4
TCOM 202	Media, Culture, and Technology II	4
TCOM 367 or TCOM 453	World Broadcasting Telecommunications Law and Regulations	4

Sequence Requirements

Fall quarter freshmen, irrespective of major sequence, must successfully complete TCOM 100, TCOM 110, TCOM 201, and TCOM 202 before they will be allowed to enroll in telecommunications courses above the 300 level. Transfer students and other freshmen must successfully complete TCOM 110, TCOM 201, and TCOM 202. You must take at least 20 hours in telecommunications after transferring into a sequence.

Audio Production Sequence

Major code BC5336

This plan of study is aimed at providing skills in music recording, commercial production, audio drama and documentary, and experimental forms.

TCOM 200B	Audio Production	4
TCOM 308	Technical Bases of Telecommunications	4
TCOM 313	Field Audio Production	4
TCOM 331	Telecommunications Writing	4
TCOM 413	Studio Audio Production I	4

Telecommunications electives with approval of advisor, including at least eight hours of nonproduction classes 12

Corollary courses supporting program goals (from no more than two areas with at least 20 hours at the 300 to 400 level) 35

Suggested areas include music, hearing and speech sciences, business, film, computer science, electrical engineering, physics, and theater.

Management Sequence

Major code BC5312

This plan of study aims to provide an understanding of the management process in telecommunications and to develop managerial skills. The following courses are required:

TCOM 355	Broadcast and Cable Programming	4
TCOM 360	Telecommunications Mgt.	4
TCOM 459	Audience Research	4
TCOM 461	Telecommunications Financial Mgt.	4
TCOM 462	Broadcasting and Cable Sales Mgt.	4

Telecommunications electives with advisor approval 12

Corollary courses supporting program goals 35

ACCT 101, ECON 103, ECON 104, and MGT 200 or 202; 20 hours at the 300 to 400 level in business and/or organizational communication.

Media Studies Sequence

Major code BC5311

This plan of study offers students a broad exposure to telecommunications and an opportunity to develop specializations in a variety of areas. Possible areas of emphasis include: writing, international communication, corporate video, multimedia, political communication, and audience research. The program also provides for specialization outside the school. Program goals are developed jointly by student and advisor to provide adequate training in the specialization desired, and to ensure breadth of instruction in telecommunications. The following are required:

TCOM courses supporting program goals 32

Corollary courses supporting program goals (from no more than two areas with at least 20 hours at the 300 to 400 level) 35

Video Production Sequence Major code BC5313

This plan of study is aimed at providing advanced skills in video production with special emphasis on the creative responsibilities of production and direction. The following courses are required:

TCOM 200C	Video Production I	4
TCOM 308	Technical Bases of Telecommunications	4
TCOM 317	TV Studio Operations	2
TCOM 318	Video Production II	4
TCOM 331	Telecommunications Writing	4
TCOM 418	Producing for Video	4

Telecommunications electives with approval of advisor, including at least eight hours of nonproduction classes 10

Corollary courses supporting program goals (from no more than two areas with at least 20 hours at the 300 to 400 level) 35

Suggested areas include art, theater, film, music, English, business, computer science, and visual communication.

Minor in Telecommunications

Minor code ORTCOM

The minor in telecommunications is available to students in all disciplines.

Required Core Courses (8 Hours)

TCOM 110	Telecomm. Writing and Production Planning	4
TCOM 170	Media Perspectives	4

Elective Courses (20 hours)

Select 20 hours from:

TCOM 331, 355, 360, 367, 370, 371, 384, 421, 430, 431, 432, 453, 454, 463, 464, 456, 475, 479, 481, 482

Up to 8 hours in equivalent courses from other institutions will be accepted, but you must take 20 hours in telecommunications at Ohio University to complete the minor.

Total Hours: 28

Internships

Majors are encouraged to undertake an internship in the spring or summer quarter of the junior year, or during the senior year. An internship provides eight hours of credit (four credits can apply to the major) for full-time work with an approved sponsor during an academic term. To qualify for an internship, completion of 130-170 credits with a minimum cumulative g.p.a. of 2.7 is required.

Other Requirements and Standards

No course selected to fulfill any requirement may be taken on a pass/fail basis by a telecommunications major.

No course may be counted toward more than one type of school requirement. For example, a course used to meet a general requirement may not also be used to meet a sequence requirement.

School of Visual Communication

Larry Nighswander, *Director*

The College of Communication offers an interdisciplinary visual communication degree with four specialized sequences. The school has been twice recognized as a Program of Excellence in photography and visual communication by the Ohio Board of Regents. Students can earn a Bachelor of Science in Visual Communication.

The program is designed to provide students with realistic and thorough broad-based professionally oriented training in visual communication while providing the necessary liberal arts and cultural background for a strong educational foundation.

Intensive training is offered in informational graphics/publication design, interactive multimedia, photo journalism for newspapers and magazines, and photo illustration.

Goals of the School

The goals of the School of Visual Communication are (1) to equip students with the necessary skills to be successful in the media, and the background and motivation to enable them to compete for leadership roles in the field; (2) to provide assistance and professional guidance in visual communication to working photographers, editors, and other personnel, newspapers, press services, magazines, industrial photographic departments, trade associations, multimedia and educational media production units, and cultural and scientific visual communicators; (3) to set high standards for visual integrity and communication ethics; and (4) to foster and promote scholarly research.

Internships

In an effort to provide practical training, the school requires you to work at least one paid internship for 10 weeks during your college career. Any qualified student may compete for an internship. Many students have several internships before graduation.

In recent years, Ohio University visual communication students have worked on paid internships at newspapers and magazines and in advertising, photo illustration, and audio-visual production. Internships have been available in almost all states and several international locations, including Brazil, France, Japan, and Norway.

Many Ohio University visual communication students are active members of the Ohio News Photographers Association and other state press photographer groups and are student members of the National Press Photographers Association, the Society for News Design, and the American Society of Media Photographers. Ohio University students have been successful in state and national photography competitions, and have done particularly well in the annual William Randolph Hearst foundation photojournalism competition, which is open to any student taking photojournalism courses in any of the more than 90 participating colleges and universities.

Bachelor of Science

Admission Requirements—B.S.V.C.

The School of Visual Communication admits only the best academically and professionally qualified students who normally rank in the top quarter of their high school class. If you have a lower class ranking, you are considered if you have outstanding SAT or ACT scores. In addition, if you demonstrate notable talent or experience or are a member of a historically under-represented group, you will be given special consideration for admission. If you do not meet the minimum requirements for admission (low SAT/ACT and/or class standing), you may apply for admission based on talent. To supplement your application, you may submit a portfolio of at least 15 slides (copies of examples of original work) by January 15 to the School of Visual Communication, Ohio University, Seigfried Hall 301, Athens OH 45701.

For this career-oriented professional program you will need professional equipment to complete assignments and eventually compete in the job market. Ensuring every opportunity for students to excel in a very competitive field, we require use of certain basic levels of equipment.

All students are required to own a 35mm SLR camera with a 35mm f/2 lens or a 50mm f/2 lens. The camera should permit full manual control over aperture, shutter speeds, film speed settings, and focus. An automatic "point and shoot" camera will not meet the requirements of any VICO photographic class. Please contact the school for current equipment recommendations.

It is highly recommended that all students in the school have their own computer for use in completing class assignments. Students majoring in Interactive Multimedia and Informational Graphics/Publication Design are required to own a computer with appropriate software by the time they enter VICO 314. Please contact the school for current hardware and software recommendations.

Photojournalism students entering VICO 390 should own at least one professional-level 35mm SLR camera, two lenses, and necessary accessories. One lens should have a 35mm or wider focal length with an f/2.8 or faster aperture. The second lens should be in the 135 to 200mm f/2.8 range. Zoom lenses are also acceptable if they meet the fixed aperture requirement of f/2.8.

Photo illustration students entering VICO 321 should own a professional-level medium-format camera with interchangeable film backs, a Polaroid back, one wide-angle lens, one telephoto lens, and an electronic flash meter. You should expect to spend approximately \$300-\$500 per photography course for materials.

Transfer Students

The school sets high academic and professional standards, and enrollment is limited. If you wish to transfer into the school, you must have earned at least 48 quarter hours (32 semester hours) with a g.p.a. of 3.0 or higher. You may receive additional consideration if you have demonstrated professional talent or experience or are a member of a historically underrepresented group.

These requirements apply to students transferring from other universities, from other programs within Ohio University, or from one program to another within the College of Communication. If you transfer from elsewhere in the university, you must satisfy the School of Journalism's English Proficiency Requirement before admission to the School of Visual Communication.

You must be enrolled for one academic year (three consecutive quarters) or the final 48 hours in the school to earn a degree.

General Requirements—B.S.V.C.

To meet the accrediting standards of the American Council of Education in Journalism and Mass Communication, the program requires that students earn at least 94 quarter hours of credit in courses in the College of Arts and Sciences. Students earning the Bachelor of Science in Visual Communication degree meet this standard by fulfilling general and specialization area requirements.

School of Visual Communication majors are required to meet all General Education Requirements of Ohio University, including Tier I, Tier II, and Tier III. A thoughtful selection from the Tier II list will enable you to meet the school requirements below while fulfilling many of Ohio University's Tier II requirements.

The general education requirements provide a liberal arts and sciences core for all students with the following courses:

Anthropology 101 (1 qtr)
History (2 qtrs)
Philosophy 120 and 130 (2 qtrs)
Political Science (2 qtrs)
Psychology 101 (1 qtr)
Sociology 101 (1 qtr)

Specialization Area Requirements

To the liberal arts base, which generally is the focus of the freshman year, visual communication students add courses in desired areas of specialization, meeting the requirement by completing the following:

- 1 A minimum of 16 hours in advanced courses (200 level or above) in a single department within the College of Arts and Sciences.
- 2 A choice of three quarters of a foreign language or three quarters of natural sciences or Art History 211, 212, 213.

No course may be counted for more than one type of school requirement. For example, a course used to meet a general requirement may not also be applied to a specialization area or sequence requirement.

Total Arts and Sciences Requirement

You must have a minimum of 94 hours of arts and sciences courses to graduate.

Visual Communication Core Requirements

All visual communication majors complete a basic core of eight courses totaling 32 hours:

ART 113	Three-Dimensional Design	4
ART 116	Drawing I	4
ART 117	Drawing II	4
	Studio art elective	4
AH 237	Photo History Survey	4
JOUR 133	Precision Language for Journalists	4
VICO 120	Intro to Visual Communication	4
VICO 221	Intro to Visual Communication Skills	4
Total core requirements		32

Standards

- 1 You must have a g.p.a. of 3.0 in VICO 120, 221, and 222.
- 2 You must earn a C or better in JOUR 133 and in all professional courses (VICO, JOUR, PHOTO, and TCOM), including professional electives, to graduate. A grade of C- does not meet this requirement.
- 3 To qualify for admission to JOUR 231, you must achieve at least 25 words per minute on a typing examination administered on the first day of class.
- 4 No professional course may be taken more than twice.

Visual Communication Sequence Requirements**Informational Graphics/Publication Design
Major code BS6924**

Two of the following four courses:

ART 228	Basic Drawing	4
ART 250	Graphic Design Principles	4
ART 251	Typography	4
ART 254	Lettering	4
JOUR 231	News Reporting	4
JOUR 233	Information Gathering	3
JOUR 235	Picture Editing	3
JOUR 336	Adv. Picture Editing	3
JOUR 411	Communication Law	3
JOUR 412	Ethics, Mass Media, and Society	3
VICO 311	Informational Graphics	5
VICO 314	Desktop Publishing	5
VICO 323	Publication Layout and Design	4
VICO 412	Adv. Informational Graphics	5
VICO 426	Adv. Publication Layout and Design	4
Total sequence requirements		50

**Interactive Multimedia
Major code BS6923**

JOUR 233	Information Gathering	3
TCOM 110	Production Writing/Planning	4
TCOM 200B	Audio Production	4
TCOM 200C	Video Production	4
VICO 222	Visual Comm. Tools	4
VICO 390	Intro to Photojournalism	4
or VICO 321	Intro to Photo Illustration	4
or VICO 311	Informational Graphics	5
VICO 314	Desktop Publishing	5
VICO 320	Topic Seminar	4
VICO 471	Digital Imaging	4
VICO 473	Interactive Media	4
VICO 488	Advanced Photo Reportage III	4
Total sequence requirements		44-45

**Photo Journalism
Major code BS6922**

JOUR 231	News Writing	4
JOUR 235	Picture Editing	3
JOUR 411	Communication Law	3
VICO 222	Visual Comm. Tools	4
VICO 390	Intro to Photojournalism	4
VICO 327	Photo Illustration—Fashion	4
or VICO 328	Photo Illustration—Still Life	4
or VICO 393	Intermediate Photojournalism III	4
VICO 391	Intermediate Photojournalism I	4
VICO 392	Intermediate Photojournalism II	4
VICO 486	Advanced Photo Reportage I	4
VICO 487	Advanced Photo Reportage II	4
or VICO 421	Documentary/Essay	or 5
Total sequence requirements		38-39

**Photo Illustration
Major code BS6925**

JOUR 250	Advertising Principles	4
VICO 222	Visual Communication Tools	4
VICO 321	Intro to Photo Illustration	4
VICO 327	Photo Illustration—Fashion	4
VICO 328	Photo Illustration—Still Life	4
VICO 427	Adv. Photo Illustration (Business Practices)	5
VICO 428	Adv. Photo Illustration (Studio Practices)	5
VICO 429	Adv. Photo Illustration (Applications)	5
VICO 471	Digital Imaging	4
	Choice of 8 hours of advisor approved business law, accounting, marketing courses	8
Total sequence requirements		47

College of Education

McCracken Hall

James L. Heap
Dean

Glenn A. Doston
Associate Dean

Bonnie Beach
Assistant Dean

The College of Education is a professional college whose major goal is to prepare individuals for future careers related to education. A wide range of programs is offered for teaching in middle and high schools and for other educational positions. The college provides graduate study in a variety of professional education fields.

All undergraduate programs include a broad base of general education, intensive preparation in the subject matter field, and professional emphasis that combines theory with practice. Each program is thus designed to prepare students to enter their future career with a strong background in liberal arts, educational strategies and techniques, and a thorough understanding of teaching and learning processes.

The College of Education is accredited by the North Central Association of Colleges and Secondary Schools and the National Council for Accreditation of Teacher Education and is approved for teacher preparation by the State Department of Education of Ohio.

The College of Education shares the mission of Ohio University. Its special mission is to provide supportive and challenging experiences that foster the development of educational and human services professionals and the communities they serve. The college is a center for the development of knowledge and effective practices in education, human development, and organizational leadership. It promotes the efforts of participants to design and experiment with new practices, evaluate their impact, and share the results. Thus, programs evolve and are frequently improved to comply with changing standards established by the State of Ohio and accrediting agencies.

The information provided here does not include changes made after the printing deadline. Students must follow the program requirements that are in effect at the time of their acceptance into a teacher licensure program and be prepared to incorporate additional changes that may be required by program revisions. Contact the Office of Student Services for current information about a particular program.

Bachelor of Science in Education

The Bachelor of Science in Education represents the completion of a program designed to allow you to attain competence in three areas: (1) the principal academic fields; (2) the knowledge, skills, attitudes, and values underlying teaching; and (3) general/liberal education.

Besides university General Education Requirements, you must complete the licensure requirements established for the program you are following.

If you plan to teach in the early childhood grades, enroll in the College of Education or the College of Health and Human Services. The curricula offered by both colleges meet the requirements of the State Department of Education and qualify you for a provisional license to teach age three through grade three.

If you plan to teach middle school, high school, or special subjects (e.g., music, art, physical education), enroll in the College of Education or other colleges within the university. These programs meet the requirements of the State Department of Education and qualify you for a provisional license to teach the subjects indicated on the license.

If you plan to teach in special education classrooms, enroll in the College of Education. The curricula offered by the college meet the requirements of the State Department of Education and qualify you for a provisional license to teach in classrooms with mild to moderate or moderate to intensive educational needs.

All students pursuing teacher education programs at Ohio University are subject to the Selective Admission and Retention Program in teacher education. Criteria and procedures are available from the Student Services Office in McCracken Hall.

Programs

All undergraduate teacher education programs at Ohio University conform to state standards for licensure issued by the State Department of Education of Ohio and NCATE.

These programs and courses apply to all students entering Ohio University in the 1999-00 school year but are subject to change to conform to any revisions set forth by the State Department of Education and national accrediting agencies. If you have any questions about your program requirements, contact your advisor or Student Services, Ohio University, McCracken Hall 124, Athens OH 45701-2979, telephone 740-593-4420. E-mail: sedu1@ohiou.edu. Internet: <http://www.cats.ohiou.edu/~edpldept/>

Reading endorsement

A reading endorsement of a standard license may be issued. For specific information, contact the Office of Student Services, McCracken Hall 124.

Validation

A validation of a standard license may be issued in the area of Adapted Physical Education (limited to teachers licensed in PE).

For specific information, contact the Office of Student Services, McCracken Hall 124.

Selective Admission and Retention

The college has a selective admission and retention process that applies to all students who intend to complete the teacher preparation program through Ohio University. Decisions regarding the retention of teacher education students in licensure programs will be made through a continual quarterly evaluation of progress in coursework, clinical experiences, and field-based experiences. Evaluation criteria will be directly related to the specific knowledge, skill, attitude, and value objectives associated with each experience. There are three selection phases in this process, two of which are described below. The third phase is detailed under "Student Teaching."

You may appeal a decision regarding admission or retention by filing an appeal with the Credential Review Committee. Appeal information may be obtained from Student Services, McCracken Hall 124.

Admission to the College of Education

Students from other colleges at Ohio University who wish to transfer into the College of Education must have a cumulative g.p.a. of 2.75. Admission requirements are presently under review and are subject to revision.

Professional Expectations

Membership in the Ohio University academic community carries with it certain rights and responsibilities that are specifically delineated in the Student Code of Conduct. In addition, membership in the education profession requires that you demonstrate the ability and commitment to respect the dignity, worth, and diversity of all persons with whom you work and study, including peers, school students, and professional contacts on campus and in the community. The complete policy regarding professional expectations is available from the College of Education.

Admission to Professional Education

You must be admitted to professional education before taking any education courses numbered 200 and above.

Apply for admission to professional education during the third quarter of your first year. Athens campus students must attend a group meeting arranged by Student Services, and regional campus students should check with Student Services or the dean's office on the regional campus for information.

Requirements

These requirements are subject to change.

- 1 Completion of 45 quarter hours of credit with an overall grade-point average (g.p.a.) of 2.75.
- 2 No grade below a C in any of the following:
 - a PSY 101 General Psychology
 - b All Tier I freshman composition and mathematics, and INCO 103 (INCO 101 or 103 for integrated language arts majors or middle childhood majors with a concentration in language arts).
 - 3 Satisfactory performance on the Preprofessional Skills Tests (PPST). You must achieve scores of 173 or above in writing and mathematics and 174 or above in reading. **OR** Satisfactory performance on ACT or SAT. You must achieve a composite score of 21 or better on the ACT and/or 950 or better on the SAT. Any score less than these is unacceptable, and you may not enroll in education courses.
 - 4 Submission of a statement confirming that your record is clear of any felony convictions, obtained from Student Services.
 - 5 Submission of results of the tuberculosis skin test (administered by Hudson Health Center or other appropriate office).

6 Screening and recommendation by a representative appointed by faculty and admission to Professional Education.

7 Submission of two professional references.

8 If you are a transfer student, you may be required to submit recommendations from your previous college. Your g.p.a. may be considered in admission decisions.

Admission to Advanced Standing in Professional Education

You must be admitted to advanced standing before taking any education courses numbered 300 or above. Methods courses can be taken no more than twice. Failure to obtain a satisfactory grade can result in dismissal from the program.

Apply for advanced standing in professional education at the end of the third quarter of your sophomore year. Athens campus students must attend a group meeting arranged by Student Services, and regional campus students should check with Student Services or the dean's office on the regional campus for relevant information.

These requirements are subject to change.

1 General requirements

- a Completion of 90 quarter hours of credit with an overall g.p.a. of 2.75.
- b Satisfactory reports from:
 - (1) TB test, from Hudson Health Center or other appropriate office.
 - (2) Judiciaries approval
 - (3) Faculty advisor approval
 - c Screening and recommendation by a representative appointed by faculty and admission to advanced standing.

2 Specific requirements for early childhood education

Completion of the following courses with a minimum grade of C in each and a 2.75 g.p.a.:

- (1) HCCF 160
- (2) HCCF 160A
- (3) HCCF 170
- (4) HCCF 260
- (5) HCCF 260L
- (6) HCCF 361
- (7) HCCF 361L
- (8) EDSP 271
- (9) EDEC 206

3 Specific requirements for middle, adolescent-young adult, multi-age (Pre-K-12) and intervention specialist education

a Completion of the following courses with a minimum grade of C in each:

- (1) EDCI 200
- (2) EDCI 201
- (3) EDCI 202
- (4) EDCI 203

b A 2.75 g.p.a. in each teaching field for which licensure is being sought.

4 Specific requirements for hearing and speech therapy

Completion of the following courses:

- (1) HSS 310 or equivalent
- (2) PSY 273 or HCCF 160 or equivalent
- (3) EDSP 271 or PSY 376 or equivalent

Student Teaching

Successful student teaching represents the culmination of the program of professional preparation; it is a requirement for the Bachelor of Science in Education for individuals pursuing programs that are designed to result in eligibility for teacher licensure. You may be considered for recommendation for teaching licensure after receiving a passing score on the Praxis II exam and successfully completing at least 16 hours of student teaching and seminar under the supervision of Ohio University.

Application

It is your responsibility to enter an application for student teaching in Student Services no later than December 1 preceding the academic year in which a student teaching assignment is desired. Failure to apply by this deadline will place you on a waiting list for your desired quarter.

Schedule, Housing, Transportation, and Assignments

You will experience the complete range of the teacher's activities in full-time student teaching assignments for one quarter. You must plan carefully during the first three years of college to provide for a completely free quarter to engage in full-time student teaching. Majors in secondary academic areas and special fields will normally be assigned to student teaching during one of the quarters of their senior year.

The assignment of each student to a school is the responsibility and prerogative of the director of Student Services. You will be assigned to one of our centers in Athens; Chillicothe; Ironton; Lancaster; St. Clairsville; Zanesville; Cleveland; or St. Louis, Missouri.

You must secure your own housing and provide your own transportation to your assignments. You will need a car unless you are assigned to a metropolitan center where public transportation is available. Student teaching assignments in the Athens area are made within a commuting radius. The university assumes no responsibility for your transportation.

Prerequisites for Student Teaching

Applicants are evaluated for admission to student teaching in terms of the prerequisites described in this section. Any exceptions are the responsibility of the director of Student Services. You are responsible for meeting the appropriate prerequisites prior to the opening of the quarter designated for student teaching on your application. In addition to the prerequisites detailed in this section, applicants in music, physical education, human and consumer sciences, and hearing and speech therapy must have approval of the appropriate departmental head.

Enrollment in student teaching is open only to Ohio University degree candidates or to degree holders who are completing Ohio licensure requirements and who will be eligible for Ohio University's recommendation for an Ohio license upon the completion of student teaching.

Criteria for Admission

Requirements must be completed by the time you begin student teaching, not at the time of application.

1 General requirements

These requirements are subject to change.

- a Completion of at least two quarters (30 quarter hours) of residence work at Ohio University. Transfer students must complete at least one-fourth of the preparation in the principal teaching field at Ohio University.
- b Completion of at least 135 quarter hours with accumulative g.p.a. of 2.75.
- c Completion of all requirements to be admitted to advanced standing in professional education at least one quarter prior to starting student teaching, including passing scores on PPST or equivalent.

d Completion of junior-level English composition requirement with a C or better.

e Completion of a significant portion (at least 75 percent) of the general education portion of the teacher education program you are pursuing and all of the university General Education Tier I and Tier II requirements.

f Screening and recommendation for student teaching by a representative appointed by the faculty.

2 Specific requirements for early childhood education: EDPL 461, 462, 465; early childhood practicum

You must meet all general requirements for admission to student teaching and additional requirements to be determined.

3 Specific requirements for middle childhood:

a Completion of the following courses with a g.p.a. of 2.75 and a minimum grade of C in each:

- (1) EDCI 200, 201, 202, 203, 301, 371B, 400, 420
- (2) EDMC 300, 301 and 360

(3) Any additional education courses (to be determined)

(4) State required reading courses: EDCI 220, 325, 420, and 421

(5) Specific methods courses, one in each concentration area

b Completion of a major portion (at least 75 percent) of the work in each of the two concentration areas in which the student wishes to be licensed.

c An accumulative g.p.a. of 2.75 in each teaching field for which licensure is sought.

4 Specific requirements for adolescent-young adult and the modern languages multi-age (Pre-K-12) education:

a Completion of the following courses with a g.p.a. of 2.75 and a minimum grade of C in each:

- (1) EDCI 200, 201, 202, 203, 301, 371B, 400
- (2) EDSE 350, 351

(3) Any additional education courses (to be determined)

(4) Any specific methods courses

b Completion of a major portion (at least 75 percent) of the work in each of the teaching fields in which the student wishes to be licensed.

c An accumulative g.p.a. of 2.75 in each teaching field for which licensure is sought.

5 Specific requirements for multi-age art, music, and physical education:

a Completion of the following courses with a g.p.a. of 2.75 and a minimum grade of C in each:

- (1) EDCI 200, 201, 202, 203, 301, 371A, 400, 420
- (2) EDMC 300

(3) Any additional education courses (to be determined)

(4) Any specific methods courses

b Completion of a major portion (at least 75 percent) of the work in each of the teaching fields in which the student wishes to be licensed.

c An accumulative g.p.a. of 2.75 in each teaching field for which licensure is sought.

6 Specific requirements for mild-moderate educational needs:

- a Completion of all courses in Blocks I, II, III, and IV with a minimum grade of C in each course and a 2.75 g.p.a. in all blocks.
- b Completion of all field experience courses required in Blocks I, II, III, IV, and EDEL 330, 330L, 331, 331L, EDCI 220, 301, 325 and 400.

7 Specific requirements for moderate-intensive educational needs:

- a Completion of all courses in Blocks I, II, III, and IV with a minimum grade of C in each course and a 2.75 g.p.a. in all blocks.
- b Completion of all field experience courses required in Blocks I, II, III, IV, and EDEL 330, 330L, EDCI 220, 301, 325 and 400.

8 Specific requirements for hearing and speech therapy:

- a Completion of the following courses:
 - (1) HSS 619
 - (2) HSS 643
 - (3) EDSP 474 or equivalent
- b Enrollment in master's program in Hearing and Speech Science

Teaching Licenses

If you plan to teach in Ohio, you will apply for a teaching license one month before completing the required classes. Before you will be licensed to teach, passing scores for the Praxis II exam must be reported to Student Services in the College of Education. Applications may be obtained from Student Services, McCracken Hall 124, or your regional campus student services office. The license is issued by the State Department of Education and qualifies you to teach the subjects indicated on the license.

Completion of requirements for graduation and of the professional courses required for licensure does not ensure that you will be recommended for licensure. Instructors in various courses, especially in courses in education and student teaching, will evaluate your fitness for the teaching profession in ways other than observation of academic performance in the classroom. Limitations that might impair your usefulness as a teacher in the public schools will be made a part of your record. When you apply for a license, this record will be examined and your fitness for teaching given further consideration.

All students applying for a teaching license must undergo a background check by the Bureau of Criminal Identification and Investigation (BCI). The State Department of Education will not issue a new license until it receives a copy of the background check from the BCI. This requirement includes:

1 Those applying for their first license

2 Those who have a license but are applying for an additional license

If you are applying for an endorsement or validation, you will not need to undergo a background check.

If you are not planning to teach in Ohio, familiarize yourself with the requirements specified by the state in which you expect to teach.

Once you are issued a two-year provisional license, you are required to complete the Entry Year Program and Performance Based Assessment in order to be eligible for a five-year professional license.

Out-of-State Licensure and Reciprocity

Many states have licensure guidelines that allow all NCATE-accredited colleges to recommend students for licensure. Our NCATE accreditation allows the College of Education to recommend qualified students for teacher licensure in many other states. If you need to obtain licensure outside Ohio, contact the Department of Education in the appropriate state to obtain an application and learn if additional tests or courses are required. Your out-of-state application should be sent to Student Services, McCracken Hall.

Currently, the state of Ohio participates in the Interstate Agreement on Qualification of Educational Personnel and has entered into an implementation contract with the following states:

Alabama	Nebraska
Alaska	New Hampshire
California	New Jersey
Connecticut	New York
Delaware	North Carolina
District of Columbia	Oklahoma
Florida	Pennsylvania
Hawaii	Rhode Island
Idaho	South Carolina
Indiana	South Dakota
Kansas	Tennessee
Kentucky	Utah
Maine	Vermont
Maryland	Virginia
Massachusetts	Washington
Michigan	West Virginia
Montana	Wisconsin

Changes in Ohio state standards for teacher licensure may affect future reciprocal agreements.

Major Field of Specialization

To be recommended by Ohio University for licensure, you must have a level of preparation in your major area of specialization that corresponds with the outline on the preceding and following pages, even though these requirements in many instances exceed those shown in the state licensure regulations.

Partnerships

In conjunction with public schools in southeastern Ohio, the College of Education has developed several partnerships. Partnership programs provide increased field experience opportunities for preservice teachers to learn with, and from, experienced in service teachers. Partnership schools support and encourage ongoing professional development for faculty and administrators. Current partnerships exist with Alexander, The Plains, Federal Hocking, Lancaster, Chauncey, East Elementary, Deering Elementary, and Whitwell.

Placement

The Office of Career Services, located in Lindley Hall, offers assistance to undergraduate students seeking educational positions. Information about available teaching and administrative positions in the public schools, as well as openings in education, student personnel, counselor education, and physical education departments of colleges and universities of most states and many foreign countries, is disseminated through the office.

Department of Counseling and Higher Education

The Department of Counseling and Higher Education offers only graduate programs. However, some undergraduate courses are available in career counseling and human relations. For more information about graduate programs, contact Student Services, McCracken Hall 124, telephone 740-593-4420.

Department of Educational Studies

The Department of Educational Studies offers only graduate programs; however, some undergraduate courses are provided for licensure programs in the Department of Teacher Education. For more information about graduate programs, contact the Office of Student Services, McCracken Hall 124, telephone 740-593-4420.

Department of Teacher Education

The Department of Teacher Education comprises four major program areas: early childhood education, middle childhood education, secondary education (adolescent-young adult), and special education (intervention specialist). The department provides the opportunity for students admitted to professional education to pursue undergraduate courses leading to teacher licensure in the state of Ohio. Listed below are program descriptions and course requirements for each of the licensure patterns offered.

Changes in state standards will dictate requirement changes not available at printing. Check with the student services office for current information.

Early Childhood Education

Major Code BS6854

These requirements are subject to change. Contact the Office of Student Services, McCracken Hall 124 for program updates.

Early childhood education prepares you to teach children three years old through third grade. In addition to being able to work with children ages three through third grade, you can also teach in nursery schools, child-care centers, and Head Start programs. You must meet the criteria for selective admission and retention in Teacher Education, including a 2.75 g.p.a. in your major, in required professional education courses, and overall. Upon completion of the program and passing the Praxis II exam, you are eligible for an Ohio two-year provisional license in early childhood education.

The early childhood education program is offered in both the College of Education and the College of Health and Human Services. Regardless of the college from which you graduate, if you wish to be licensed through Ohio University to teach age three through grade three, you must complete the following program and earn passing scores on the Praxis II exam.

Required General Education Courses

Ohio requirements for teacher licensure state that you must complete a general studies program that includes the arts, communications, history, literature, mathematics, philosophy, sciences, and the social sciences. In addition, the general studies curriculum should incorporate multicultural and global perspectives. You should work closely with your faculty advisor to select courses that would fulfill both Ohio University General Education Requirements (see Graduation Requirements section) and the requirements for teacher licensure.

Specific Tier I quantitative skills courses that are required:

MATH 120*, 121, 122 Elementary Topics in Math 11 (10 hrs min req'd)

Note: These math courses are recommended; however, any math course numbered 120 or above (except Math 151) and totaling 10 hours will be acceptable.

Specific Tier II courses that are required:

PSY 101	General Psychology	5
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Select one course from the following American history or political science options:

HIST 211	American History to 1828	4
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HIST 212	History of U.S., 1828-1900	4
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HIST 213	History of U.S. since 1900	4
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POLS 101	American National Govt	4
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POLS 102	Issues in American Politics	4
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POLS 103	The U.S. in World Affairs	4
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Biological Science requirement:

BIOS 103	Human Biology	5
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or BIOL 101	Principles of Biology	5
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Earth Science requirement:

GEOG 101	Physical Geography	5
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or GEOL 101	Introduction to Geology	5
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Physical science requirement:

PSC 100 & 140	Survey of Astronomy & Lab	5
or PSC 100D & 140	Moons & Planets: the Solar System and Lab	
or PSC 101L	Physical World	5
or PSC 105L	Color, Light & Sound	5
or PHYS 201	Introduction to Physics	5

In addition, you must complete INCO 103, Fundamentals of Public Speaking, before you can apply for admission to professional education.

Professional requirements

You must earn a grade of C or better in all of the following courses, except HCCF 462A, HCCF 462B, or HCCF 462D.

HCCF 160	Intro to Child Development	4
HCCF 160A	Observing and Recording Children's Behavior	3
HCCF 170	Intro to Early Childhood Ed	3
HCCF 260	Diversity in Early Childhood Education	3
HCCF 260L	Clinical: Diversity in Early Childhood Education	1
HCCF 361	Guidance and Classroom Management in EC Ed	3
HCCF 361L	Clinical: Guidance & Mgt	1
HCCF 363	Creative Experiences in Early Childhood	4
HCCF 363L	Clinical: Creative Exp. in EC	1
HCCF 371	Family Development	3
HCCF 455	Curriculum & Teaching Strategies in EC	4
HCCF 455L	Clinical: Curriculum & Teaching Strategies	2
HCCF 463	Admin. in Early Childhood	3
HCCF 465	Parent Education	3
HCCF 467	Philosophy & Theories of Child Development	3
Select one of the following courses:		
HCCF 462A	Pluralistic Life Styles	3
HCCF 462B	Parenthood	3
HCCF 462D	One-Parent Family	3
Related requirements:		
HCFN 12B	Intro to Nutrition	4
NRSE 303	Health & Safety in EC	3
PESS 228	CPR	1
PESS 270	Teaching of Physical Ed	3

Professional education requirements

EDCI 203	Technological Applications in Education	4
EDCI 220	Phonics and the Structure of Language	5
EDCI ***	Instructional Adapt. for Learners with Except. and Diverse Needs - EC	
EDSP 271	Intro to Education of Exceptional Children	4
EDEC ***	Intro to Integrated Curriculum and Clinical	
EDEC ***	Literacy & Reading in the Early Childhood Classroom and Clinical	
EDEC ***	Dev. Reading Through Literature & Clinical	
EDEC ***	Mathematics in Early Childhood & Clinical	
EDEC ***	Science in Early Childhood and Clinical	
EDEC ***	Social Studies in Early Childhood & Clinical	

***The above listed courses are in the curriculum process and are awaiting approval. Check with your advisor as to final course numbers, titles, and credit hours.

Student Teaching

EDPL ***	Student Teaching in Early Childhood (K-3)	13
EDPL 465	Student Teaching Sem.	3
HCCF 474	Student Teaching in EC (Preschool)	6
HCCF ***	Student Teaching Seminar in EC (Preschool)	3

***The above listed courses are in the curriculum process and are awaiting approval. Check with your advisor as to final course numbers, titles, and credit hours.

Middle Childhood Education Programs

These requirements are subject to change. Contact the Office of Student Services, McCracken Hall 124 for program updates.

To receive a B.S.Ed. in middle childhood education, you must complete one of the following programs and achieve a passing score on the Praxis II exam prior to licensure. Each program curriculum includes coursework well distributed over two academic concentrations. For example, academic concentration combinations can come from language arts, mathematics, science, and social studies. Upon completing the program and achieving a passing score on the appropriate fields of the Praxis II exam, you are eligible for a two-year provisional teaching license for grades 4-9.

Required General Education Courses (minimum required hours: 52)

You are required to fulfill Ohio University's General Education Requirements. Different concentrations may require that a set of general education courses be taken as part of tier requirements. To avoid taking unnecessary courses, it is important that you meet with your advisor when planning your Tier II courses.

Admission to professional education requires that you get a grade of C or better in the following courses:

PSY 101	General Psychology	5
INCO 103	Fund. of Public Speaking	4

Reminder: All students pursuing teacher education programs at Ohio University are subject to the Selective Admission and Retention Program in teacher education. Criteria and procedures are available in the Office of Student Services, McCracken Hall 124.

Field Experience

All field experience must be undertaken in a state-defined middle childhood grade (4-9). Field experience activities include observation, participation, multicultural field, and student teaching.

Middle Childhood Licensure**Professional requirements: 26**

All professional courses are taught with a middle childhood focus. The following courses must be completed with a 2.75 g.p.a. and no grade below a C.

The following three courses are to be taken together as a block:

EDCI 200	Learning, Human Growth, and Development	6
EDCI 201	Char. of Learners with Exceptionalities	3
EDCI 202	Field Exp. in Education	2
EDCI 203	Technological Appls. in Education	4
EDCI 301	Educ. and Cult. Diversity	3
EDCI 371B	Instr. Adapt. for Learners with Exceptionalities and Diverse Needs	4
EDCI 400	School, Society, and the Professional Educator	4

Required reading core: 19

A grade of C or better is required in each course in the required reading core, EDMC 300, 301, 360, and methods courses.

EDCI 220	Phonics and the Structure of Language	5
EDCI 325	Literature-Centered Dev. Reading Instruction	5
EDCI 420	Teaching Reading in the Content Area	5
EDCI 421	Foundations of Reading Instruction, Diagnosis, and Remediation	4

All middle childhood majors take the following three courses:

EDMC 300	Middle Childhood Instr. Process and Curriculum	4
EDMC 301	Middle Childhood Educ. and Curriculum	5
EDMC 360	Field Experience in Middle School Educ.	2

(EDMC 360 is a requirement which is subject to change. Check with your advisor when planning your schedule.)

Two methods courses are required, one in each of the two concentrations chosen:

(These courses are subject to change. Please check with your advisor)

EDMC 310	Teaching Lang. Arts in Middle Childhood Grades	4
EDMC 330	Teaching Mathematics in Middle Childhood Grades	4
EDMC 340	Teaching Sci. in Middle Childhood Grades	4
EDMC 350	Teaching Soc. Studies in Middle Childhood Grades	4

Student Teaching

EDPL 461	Student Teaching in Middle Childhood	7
EDPL 462	Student Teaching in Middle Childhood	6
EDPL 465	Student Teaching Sem.	3

These three courses are taken concurrently in one quarter and constitute the student teaching requirement. Apply for student teaching by December 1 of the year prior to the year in which you plan to student teach. For example, if you plan to student teach during any of the three quarters of the 2000-2001 school year, apply by December 1, 1999. All student teaching and early field experiences must be completed in grade levels associated with the state's definition of middle childhood (fourth grade through ninth grade). For further information, contact the Office of Student Services, McCracken Hall 124.

Major Requirements

Select two concentrations from the following four areas of concentration.

Language Arts Concentration: 45**Major code BS6302**

ENG 200	Intro to Literature	4
ENG 323	American Lit 1918-Present	4
ENG 351	History of the Eng. Lang.	4
ENG 352	Dev. of American English	4
JOUR 133 or ENG 350	Precision Language Traditional Grammar, Mechanics, and Usage	4
LING 270	Nature of Language	5
EDMC 321	Adolescent Literature	4

Select one course from:

ENG 325	Women and Literature	4
ENG 327	African American Fiction	4
ENG 328	African American Poetry	4
ENG 329	African American Drama	4
ENG 331	Studies in Asian Lit.	4
ENG 332	Studies in Asian Lit.	4
ENG 333	Studies in Asian Lit.	4

Select one course from:

ENG 280	Exp. Writing and the Research Paper	4
ENG 361	Creative Writing: Fiction	4
ENG 362	Creative Writing: Poetry	4
ENG 363	Creative Writing: Nonfiction	4

Select two courses from:

INCO 101	Fund. of Human Comm.	4
INCO 205	Group Discussion	4
INCO 220	Oral Interpretation of Lit.	4
THAR 113	Acting Fundamentals I	4

Mathematics Concentration: 39**Major code BS6303**

MATH 120	Elem. Topics in Math.	4
MATH 121	Elem. Topics in Math.	4
MATH 122	Elem. Topics in Math	3
MATH 211	Elem. Linear Algebra	4
MATH 263*A,B	Calculus	8
MATH 300	History of Mathematics	4
MATH 306	Found. of Mathematics I	4
MATH 330A	Found. of Geometry	4
	Electives at the 200 level or above	4

*Depending on a student's result on the math placement test given at precollege orientation, additional courses beyond those listed in the concentration area may be required. Be sure to check with your advisor to see if any prerequisites for required math courses need to be taken.

Science Concentration: 37–40**Major code B56304**

CHEM 121	Prin. of Chemistry I	4
CHEM 122	Prin. of Chemistry II	4
GEOG 201	Environ. Geography	4
PHIL 216	Philosophy of Sci. Survey	3
PHYS 201	Intro to Physics	5

Select one course from:

PBIO 102	Plant Biology	5
or PBIO 100L	The World of Plants	5
or PBIO 110	Intro to Plant Biology	6

Select one course from:

BIOS 171	Intro to Zoology	5
PBIO 103	Plants and People	4
PBIO 321	Agri. Plant Ecology	4

Select one course from:

GEOL 101	Intro to Geology	5
GEOL 215	Environmental Geology	4
GEOL 221	Earth and Life History	4
GEOL 231	Water and Pollution	4

Select one course from:

ASTR 100	Survey of Astronomy	4
ASTR 100D	Moons and Planets: The Solar System	4

Social Studies Concentration: 45**Major code B56305**

ANTH 101	Intro to Cultural Anthro.	5
ECON 103	Prin. of Microeconomics	4
ECON 104	Prin of Macroeconomics	4
GEOG 121	Human Geography	4
GEOG 201	Environmental Geog.	4
HIST 131	Intro to Non-Western Hist.	4
HIST 211	Amer. Hist. to 1828	4
HIST 212	Hist. of the U.S., 1828–1900	4
POLS 101	Amer. National Govt.	4
POLS 150	Current World Problems	4
SOC 201	Contemp. Social Problems	4

Methods Course Requirements

A grade of C or better is required in each course in the required reading core, EDMC 300, 301, 360, and methods courses.

All middle childhood majors take the following three courses:

EDMC 300	Middle Childhood Instr. Process and Curriculum	4
EDMC 301	Middle Childhood Educ. and Curriculum	5
EDMC 360	Field Experience in Middle School Educ.	2

(EDMC 360 is a requirement which is subject to change. Check with your advisor when planning your schedule.)

Two methods courses are required, one in each of the two concentrations chosen:

(These courses are subject to change. Please check with your advisor.)

EDMC 310	Teaching Lang. Arts in Middle Childhood Grades	4
EDMC 330	Teaching Mathematics in Middle Childhood Grades	4
EDMC 340	Teaching Sci. in Middle Childhood Grades	4
EDMC 350	Teaching Soc. Studies in Middle Childhood Grades	4

Adolescent-Young Adult and Multi-age Education Programs

The following professional and general requirements apply to all adolescent-young adult and multi-age modern languages education majors. Individual majors are listed alphabetically in the following pages.

Professional Requirements: 35–41

The following courses must be completed with a 2.75 g.p.a. and no grade below a C.

The following three courses are to be taken together as a block:

EDCI 200	Learning, Human Growth, and Development	6
EDCI 201	Char. of Learners with Exceptionalities	3
EDCI 202	Field Exp. in Typical and Exceptional Student Dev.	2
EDCI 203	Technological Appls. in Education	4
EDCI 301	Cultural Diversity and Education	3
EDCI 371B	Instr. Adapt. for Learners with Exceptionalities and Diverse Needs	4
EDCI 400	School, Society, and the Professional Educator	4
EDSE 350	Secondary School Planning and Instruction	4
EDSE 351	Instructional Processes and Curriculum	5
	Methods in Major Field	4–6

Additional or replacement courses are under development; check with your advisor for current information.

You may enroll in 200-level courses after admission to professional education.

You may enroll in 300- and 400-level courses after admission to advanced standing.

You are strongly urged to preregister for your professional courses so that proper field experience placements in your major area can be identified ahead of time. If you seek to add L (field experience) courses after a quarter begins, you may be required to wait until a field placement is open.

The following professional and general* requirements apply to all multi-age Art, Music, and Physical Education majors. Individual majors are listed alphabetically in the following pages.

Professional Requirements: 34 hrs. min.

The following courses must be completed with a 2.75 g.p.a. and no grade below a C.

The following three courses are to be taken together as a block:

EDCI 200	Learning, Human Growth, and Development	6
EDCI 201	Char. of Learners with Exceptionalities	3
EDCI 202	Field Exp. in Typical and Exceptional Student Dev.	2
EDCI 203	Technological Appls. in Education	4
EDCI 301	Cultural Diversity and Education	3
EDCI 371A	Instr. Adapt. for Learners with Exceptionalities and Diverse Needs	3
EDCI 400	School, Society, and the Professional Educator	4
EDCI 420	Teaching Reading in Content Area	5
EDMC 300	Middle Child Inst. Process & Curriculum	4

*Multi-age physical education majors have a different set of general education requirements which are listed with physical education methods and major requirements.

Professional Laboratory Experience

EDPL 463 and 464*	Student Teaching	13
EDPL 465	Stu. Teaching Seminar	3

*EDPL 461 may be substituted for EDPL 464 where appropriate.

These three courses are taken concurrently in one quarter and constitute the student teaching requirement. Apply for student teaching by December 1 of the year prior to the year in which you plan to student teach. For example, if you plan to student teach during any of the three quarters of the 2000–2001 school year, apply by December 1, 1999. For further information contact Student Services, McCracken 124.

Required General Education Courses (45 hours)

In addition to the following program requirements, you also must complete Ohio University's General Education Requirements. Consult with your advisor to plan a course of study that will meet both sets of requirements.

You must meet departmental prerequisites for all classes if you are seeking licensure. For example, you must take and pass PSY 101 with a minimum grade of C before taking any 200 level education course.

Science and Mathematics

You are required to complete at least one course in science and one course in mathematics. Appropriate science courses are astronomy, chemistry, physics, plant biology, biological science, physical science, geological sciences, and PSY 226, 312, and 314. Any course in the Department of Mathematics, except 101, 102, or 320L, is acceptable for the mathematics requirement. Also, all Tier I quantitative skills courses count toward the mathematics requirement. Computer science courses do not satisfy this requirement.

Comparative Arts and/or Philosophy

You are required to complete at least two courses in this area. The two courses need not be in one field. Possibilities include any courses in the Department of Philosophy (except PHIL 120) or School of Comparative Arts; HUM 107, 108, 109, 307, 308, and 309; theater history courses; Art History; Art except for ART 360, 461, 461L, 462; School of Music courses except for music education courses, music therapy courses, and the one- or two-hour participation courses.

Social Sciences

You are required to complete at least two courses in social sciences. The two courses need not be in the same field. PSY 101, which is required, is included as one of the social sciences courses. Other possibilities include any course in anthropology, economics, economic education, history, political science, sociology, social work, geography, and psychology, except PSY 120, 226, 275, 312, and 314.

English and/or Foreign Language

You are required to complete at least two courses in English and/or foreign language. The two courses need not be in the same field. Freshman and junior English composition courses taken to satisfy the university English composition requirement (see General Education Requirements section) may be used toward completion of these hours. Either INCO 103 (or INCO 101 for integrated language arts majors only) is a specific requirement in this area and is counted as one of the two courses needed. Possibilities in this area include all English courses except ENG 451, 451L, 452, and 452L; any linguistics courses; any foreign language courses except ML 410, 435, and 445; HUM 107, 108, 109, 307, 308, and 309. (These humanities courses may NOT count toward the General Education Requirements in both the English and/or foreign language field and the comparative arts and/or philosophy field.)

If two courses in each field do not add up to a total of 45 hours, you must elect sufficient hours in one or a combination of the above areas to bring the total hours in general education courses to 45 hours.

If your major is the same as one of the above areas, 10 hours of the major may be counted toward the corresponding general education field as well as the major. For example, if your major is integrated language arts, 10 hours of English may count toward the 45-hour total of general education courses and toward Field 4, above, which is English and/or Foreign Language.

No more than six hours of PED activity courses may be counted toward the degree except for majors in physical education, and none may count toward general education.

Honors Tutorial Program in Adolescent-Young Adult Education

If you are admitted to the Honors Tutorial College in an academic major, you may become licensed in adolescent-young adult education by combining two sets of tutorial experiences: one in the academic area and one in adolescent-young adult education. By completing both tutorial programs in addition to other licensure requirements, you will receive an adolescent-young adult teaching license and a bachelor's degree from the Honors Tutorial College. For further information, contact Dr. Joan Safran, Coordinator, Honors Tutorial Program in Secondary Education.

Art Education Major code BS6201

Regardless of the college of the university from which you graduate, to achieve licensure through Ohio University to teach art you must complete the following program and earn passing scores on the Praxis II exam. This program leads to a two-year provisional special field license in art, allowing you to teach art in grades Pre-K–12 inclusive.

To become an art education major, you must complete ART 260 with a grade of B- or better and have a minimum g.p.a. of 2.75.

The foundations program (ART 110, 112, 113, 116, 117, 118, 211, and 212) must also be completed for admission to the Art Education degree program.

If you are interested in majoring in art education, you are encouraged to meet with advisors in both the College of Education and the School of Art.

The art education major is currently under revision. Make regular contact with your advisor and the art department for current information.

Methods Courses

ART 461*	Teaching Art in the Elementary School	4
ART 461L	Elem. Field Experience	2
ART 462*	Teaching Art in the Secondary School	4

**ART 461 and 462 offered fall and winter only.

Multi-age art education professional and general requirements must also be completed.

Major Requirements

ART 110	Seeing and Knowing in the Visual Arts	4
ART 112	Foundations Photography	4
ART 113	Three-Dimensional Studies	4
ART 116, 117, 118	Drawing I, II, III	12
ART 211	Foundation Concepts	4
AH 211, 212, 213	History of Art	12
ART 212	Color, Perception, and Practice	4
ART 251	Typography	5
or ART 254A	Letter Form	5
ART 260*	Found. of Art Education	4
Elective in Art History (300 level)		8
Studio Electives		35

*B- required; offered spring quarter only.

Requirements include 68 quarter hours of studio art including 8 studio foundation courses; ART 110; 12 quarter hours of art history electives; and courses required for teacher licensure. A 35-hour minimum two-area concentration must be completed. The major concentration must consist of a minimum of 20 hours of four courses at the 200 level or above. The minor concentration must consist of a minimum of 15 hours of three courses at the 200 level or above.

Biology/Life Science

Major code BS6314

You may earn either a B.S.Ed. in the College of Education or a B.A. or B.S. in biological sciences or plant biology in the College of Arts and Sciences and meet the teacher licensure requirements. Regardless of the college of the university from which you graduate, if you wish to be licensed through Ohio University to teach life science as the major field, you must complete the following program and earn passing scores on the Praxis II exam. The program prepares you for a two-year provisional license that qualifies you to teach life science in grades 7-12 inclusive.

See also the integrated science major in this section.

Methods Courses

PBIO 360	Field Experience	2
or EDSE 440L	Middle and Sec. School Science Teaching Lab	1
PBIO 368	Teaching of Biology	4
or EDSE 440	Middle and Sec. School Science Methods	4

Adolescent-young adult education professional and general education requirements must also be completed.

Major Requirements: 120-126

BIO5 170	Intro to Zoology	5
or PBIO 110	Intro to Plant Biology	6
PBIO 111	Intro to Plant Biology	6
BIO5 171	Intro to Zoology	5
BIO5 172	Intro to Zoology	3
BIO5 173	Intro to Zoology	1
BIO5 325	General Genetics	5
or PBIO 331	Plant Genetics	5
PBIO 424	Plant Physiology	6
BIO5 275 and 376	Animal and Field Ecol.	7
or PBIO 425	Plant Ecology	5
BIO5 301	Human Anatomy	6
or BIO5 303	Comparative Vertebrate Anatomy	6
PBIO 415	Quantitative Methods in Plant Biology	5
PBIO 431	Cell Biology	5
BIO5 479*	Evolution	4
or PBIO 475	Plant Speciation and Evolution	3
PBIO 427	Molecular Genetics	3
or PBIO 450	Biotechnology and Genetic Engineering	4
MICR 211 and 212	Environ. Micro and Lab	6
or MICR 311	General Microbiology	6
CHEM 121, 122, 123**	Principles of Chemistry	12
PHYS 201, 202, 203	Intro to Physics	15
MATH 113	Algebra	5
MATH 115	Precalculus	5
or MATH 163A	Intro to Calculus	4
P5Y 221	Elem. Statistical Reasoning	4
PHIL 216	Philosophy of Science	3
GEOL 101	Intro to Geology	5
GEOL 255	Historical Geology	4
or GEOL 221	Earth and Life History	4

*Request permission from Biology Department to substitute PBIO 331 as prerequisite.

**Before selecting a chemistry sequence, check with an advisor in the College of Education. Some other programs require CHEM 151, 152, and 153 in place of CHEM 121, 122, and 123.

Recommended Tier III:

T3 420C	Biol. of Human Social Behavior	4
or T3 420E	Disease and Discovery	4
or T3 402A	The Human Life Cycle	4
or other appropriate T3 course as determined by your advisor		

Earth/Space Science

Major code B56315

You may earn a B.S.Ed. in the College of Education or a B.A. or B.S. in geological sciences or geography in the College of Arts and Sciences and meet teacher licensure requirements. Regardless of the college of the university from which you graduate, if you wish to be licensed through Ohio University to teach earth/space science as a major field, you must complete the following program and earn passing scores on the Praxis II exam. The program prepares you for a two-year provisional license that qualifies you to teach earth/space science in grades 7–12 inclusive.

See also the integrated science major in this section.

Methods Courses

EDSE 440	Middle and Sec. School Science Methods	4
EDSE 440L	Middle and Sec. School Science Teaching Lab	1

Adolescent-young adult education professional and general education requirements must also be completed.

Major Requirements: 91

CHEM 121, 122, 123	Principles of Chemistry	12
GEOG 101	Physical Geography	5
GEOG 201	Environ. Geography	4
GEOG 302	Meteorology	5
GEOL 101	Intro. to Geology	5
GEOL 211	Oceanography	4
GEOL 255	Historical Geology	4
GEOL 312	Earth Materials	4
GEOG 315 or GEOL 330	Landforms and Landscapes Geomorphology	5
GEOL 340	Prin. of Paleontology	4
GEOL 446 or GEOL 466	Earth Systems Evolution Geodynamics: The Earth's Interior	4
PBIO 103 or BIOS 100	Plants and People The Animal Kingdom	4
PHIL 216	Philosophy of Science	3
PHYS 201, 202, 203	Introduction to Physics	15
PSC 100D	Moons and Planets: The Solar System	4
PSC 140	Astronomy Lab	1
PSY 120 or MATH 250 or GEOL 205	Elem. Stat. Reasoning Intro to Prob. and Stats. Stat. Methods in Geology	4
T3 409A*	Geologic Resources	4

*Recommended Tier III course for this major.

Integrated Language Arts

Major code B56306

Due to changes in Ohio state standards for teacher licensure, these requirements are subject to change. Contact the Office of Student Services, McCracken Hall 124, for additional information.

Regardless of the college of the university from which you graduate, if you wish to be licensed through Ohio University to teach integrated language arts, you must complete the following program and earn passing scores on the Praxis II exam. The program prepares you for a two-year provisional license that qualifies you to teach integrated language arts in grades 7–12 inclusive.

Methods Courses

ENG 451, 451L	Teaching. Lang. and Comp.	4
ENG 452, 452L	Teaching Literature	4

Adolescent-young adult education professional and general education requirements must be completed.

Note: ENG 451 is offered fall; ENG 452 is offered winter.

Major Requirements: 82

ENG 307J	Writing and Research	4
ENG 325	Women and Literature	4
ENG 351	Hist. of the English Lang.	4
ENG 369A	Adolescent Literature	4
ENG 399	Literary Theory	4
ENG 453	World Literature	4
INCO 101	Fund. of Human Comm.	4
INCO 205	Group Discussion	4
INCO 215	Argumentative Analysis and Advocacy	4
JOUR 133	Precision Language	4
JOUR 221	Graphics of Comm.	5
JOUR 231	News Writing	4
JOUR 411	Newspaper and Communication Law	3
THAR 150	Viewing Performance	2

Select two of the following:

ENG 201	Critical Appr. to Fiction	4
ENG 202	Critical Appr. to Poetry	4
ENG 203	Critical Appr. to Drama	4

Select one of the following:

ENG 301	Shakespeare: Histories	4
ENG 302	Shakespeare: Comedies	4
ENG 303	Shakespeare: Tragedies	4

Select one of the following:

ENG 311	English Lit. to 1500	4
ENG 312	English Lit. 1500–1660	4
ENG 313	English Lit. 1660–1800	4

Select one of the following:

ENG 314	English Lit. 1800–1900	4
ENG 315	English Lit. 1900–Present	4

Select one of the following:

ENG 321	Amer. Lit. to 1865	4
ENG 322	Amer. Lit. 1865–1918	4
ENG 323	Amer. Lit. 1918–Present	4

Select one of the following:

ENG 327	African-Amer. Fiction	4
ENG 328	African-Amer. Poetry	4
ENG 329	African-Amer. Drama	4

Integrated Mathematics

Major code BS6307

Due to changes in Ohio state standards for teacher licensure, these requirements are subject to change. Contact the Office of Student Services, McCracken Hall 124, for additional information.

Regardless of the college of the university from which you graduate, if you wish to be licensed through Ohio University to teach integrated mathematics, you must complete the following program and earn passing scores on the Praxis II exam. The program prepares you for a two-year provisional high school license that qualifies you to teach integrated mathematics in grades 7–12 inclusive.

Methods Course

MATH 320L	Teaching of Math in Secondary School	5
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Adolescent-young adult education professional and general education requirements must be completed.

Major Requirements: 56

MATH 150	Finite Math	4
MATH 211	Elem. Linear Algebra	4
MATH 250	Intro to Prob. and Stats. I	4
MATH 251	Intro to Prob. and Stats. II	4
MATH 263 A, B, C, D	Calculus	16
MATH 300	History of Mathematics	4
MATH 306	Found. of Mathematics	4
MATH 307	Intro to Number Theory	4
MATH 314	Elem. Abstract Algebra	4
MATH 330A, B	Found. of Geometry	8

Integrated Science

Major code BS6309

You may earn either a B.S.Ed. in the College of Education or a B.A. or B.S. in a science in the College of Arts and Sciences and meet the teacher licensure requirements. Regardless of the college or university from which you graduate, if you wish to be licensed through Ohio University to teach integrated science as the major field, you must complete the following program and earn passing scores on the Praxis II exam. The program prepares you for a two-year provisional license that qualifies you to teach integrated science in grades 7–12.

You must complete adolescent-young adult education professional and general education requirements in addition to the major requirements. Information about these requirements is available in Student Services, McCracken 124.

Methods Course

EDSE 440	Middle and Sec. School Science Methods	4
EDSE 440L	Middle and Sec. School Science Teaching Lab	1

Major Requirements: 117-118

BIOS 100	The Animal Kingdom	4
BIOS 103	Human Biology	5
BIOS 220	Conservation and Biodiversity	4
BIOS 302	Human Anatomy for Nonmajors	6
CHEM 121, 122, 123	Prin. of Chemistry	12
GEOG 302*	Meteorology	5
GEOG 315 or GEOL 330	Landforms and Landscapes Prin. of Geomorphology	5 5
GEOL 101	Intro to Geology	5
GEOL 120	The Mobile Earth	4
GEOL 205 or GEOG 271 or PSY 120 or MATH 250	Statistical Meth. in Geol. Intro to Stats. in Geog. Elem. Stat. Reasoning Intro to Prob. and Stats. I	4 or 5 or 4 or 4
GEOL 211	Intro to Oceanography	4
GEOL 255	Historical Geology	4
GEOL 312	Earth Materials and Resources	5
MATH 113	Algebra	5
MATH 115	Pre-Calculus	5
MICR 211	Basic Microbiology	4
PBIO 103	Plants and People	4
PBIO 110	Intro to Plant Biology	6
PHIL 216	Phil. of Science Survey	3
PHYS 201, 202, 203	Intro to Physics	15
PSC 100D or PSC 100	Moons and Planets: The Solar System Survey of Astronomy	4 4

*Request permission from the geology department to substitute GEOL 101 as a prereq.

Recommended Tier III:

T3 470C	Chemicals: Health and Environment	4
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Integrated Social Studies

Major code BS6308

Due to changes in Ohio state standards for teacher licensure, these requirements are subject to change. Contact the Office of Student Services, McCracken Hall 124, for additional information.

Regardless of the college of the university from which you graduate, if you wish to be licensed through Ohio University to teach integrated social studies, you must complete the following program and earn passing scores on the Praxis II exam. The program prepares you for a two-year provisional license that qualifies you to teach integrated social studies in grades 7–12 inclusive.

Methods Course

EDSE 479	Teaching. Social Science in Jr. and Sr. HS	4
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Adolescent-young adult education professional and general education requirements must be completed.

Major Requirements: 94

ECON 103	Prin. of Microeconomics	4
ECON 104	Prin. of Macroeconomics	4
GEOG 101	Physical Geography	5
GEOG 121	Human Geography	4
HIST 101 or HIST 121	Western Civ in Modern Times Western Heritage: Class. Age	4 4
HIST 102 or HIST 122	Western Civilization in Modern Times Western Heritage: Medieval Legacy	4 4
HIST 131	Intro to Non-Western Hist.	4
HIST 211	American History to 1828	4
HIST 212	History of the U.S., 1828–1900	4
HIST 317A	Ohio History to 1851	4
HIST 317B	Ohio History Since 1851	4
HIST 323A	Latin American History: The Colonial Era	4
HIST 3298 or HIST 329C	Ancient Greece Ancient Rome	4
POLS 101	American National Govt.	4
POLS 102	Issues in American Politics	4
POLS 230	Comparative Politics	4
POLS 250	International Relations	4
POLS 304	State Politics	4
POLS 320	Urban Politics	4
POLS 401	Amer. Constitutional Law	4
POLS 405	American Political Parties	4
PSY 120	Elem. Stat. Reasoning	4
SOC 101	Intro to Sociology	5

Note: If you are pursuing a teacher education program at Ohio University, you are subject to the Selective Admission and Retention Program in teacher education. Criteria and procedures are available from Student Services, McCracken Hall 124.

Modern Languages

French — Major code BS6232

Spanish—Major code BS6235

German—Major code BS6233

Due to changes in Ohio state standards for teacher licensure, these requirements are subject to change. Contact the Office of Student Services, McCracken Hall 124, for additional information.

Regardless of the college of the university from which you graduate, to be licensed through Ohio University to teach one of the modern foreign languages you must complete the following program and earn passing scores on the Praxis II exam. This program prepares you for licensure to teach French, German, or Spanish in grades Pre-K–12. You will be required to pass a language proficiency examination before licensure.

You should meet regularly with faculty members in the Department of Modern Languages.

Methods Courses

ML 410	Language Lab	4
ML 435	Teaching Modern Languages in Elem. Sch.	4
ML 445	Teaching of Modern Foreign Languages	4

Any additional methods courses (to be determined)

Adolescent-young adult education professional and general education requirements must be completed.

Major Requirements—French: 68

FR 111, 112, 113	Beginning	12
FR 211, 212, 213	Intermediate	12
FR 341, 342, 343	Adv. Conv. and Comp.	12
FR 348 or 349	Civ. and Culture	4
Choose two courses from:		
FR 354, 355, and 356	Intro to Literature	8
FR 437	Phonetics	4
FR 439 or FR 441	Modern Usage Stylistics	4
Additional electives at 400 level or above		12

56 hours are required for students who place into 211; 48 hours are required for students who place into 341.

Study abroad is highly recommended.

Major Requirements—Spanish: 68

SPAN 111, 112, 113	Beginning	12
SPAN 211, 212, 213	Intermediate	12
SPAN 341, 342, 343	Adv. Conv. and Comp.	12
SPAN 348 or 349	Civ. and Culture	4
SPAN 354, 355, and 356	Intro to Literature	12
SPAN 437	Phonetics	4
SPAN 439 or SPAN 441	Modern Usage Stylistics	4
Additional electives at 400 level or above		8

56 hours are required for students who place into 211; 48 hours are required for students who place into 341.

Study abroad is highly recommended.

Major Requirements—German: 68

GER 111, 112, 113	Beginning	12
GER 211, 212, 213	Intermediate	12
GER 341, 342, 343	Adv. Conv. and Comp.	12
GER 348 or 349	Civ. and Culture	4
GER 355 and 356	Intro to Literature	8
GER 439	Modern Usage	4
GER 441	Stylistics	4
Additional electives at 400 level or above		12

56 hours are required for students who place into 211; 48 hours are required for students who place into 341.

Study abroad is highly recommended.

Music Education

Choral Emphasis — Major code BS6242

Instrumental Emphasis — Major Code BS6241

Due to changes in Ohio state standards for teacher licensure, these requirements are subject to change. Contact the Office of Student Services, McCracken Hall 124, for additional information.

Regardless of the college of the university from which you graduate, if you wish to be licensed through Ohio University to teach music, you must complete one of the following programs and earn passing scores on the Praxis II exam. The program prepares you for a two-year provisional special field license that qualifies you to teach music in grades Pre-K–12 inclusive. If you are majoring in music education, you will normally enroll in the College of Fine Arts.

Music Education - Choral Emphasis

Methods Courses

MUS 364	Secondary School Vocal Techniques	3
MUS 366	Teaching of Music in the Elementary Grades	3
MUS 3668	Early Childhood Music Ed	3
MUS 468	Gen. Music in Jr. HS	3

Plus any additional methods courses that might be determined.

Multi-age music education professional and general education requirements must also be completed.

Major Requirements: 127 min.

Major Instrument (9 quarters. See music handbook)	18	
Minor Instrument (9 quarters. See music handbook)	18	
Major Performing Groups (min. one per quarter)	22	
MUS 090	Performance Lab (9 qtrs)	
MUS 101	Music Theory I	4
MUS 102	Music Theory II	4
MUS 103	Music Theory III	4
MUS 104	Dictation and Sight Singing I	1
MUS 105	Dictation and Sight Singing II	1
MUS 106	Dictation and Sight Singing III	1
MUS 125	Intro. to Music History & Lit.	4
MUS 163	Intro. to Music Ed.	2
MUS 178	Computer Skills for Musicians	2
MUS 182	Recreational Music Instru- ments and Materials	3
MUS 201	Music Theory IV	3
MUS 202	Music Theory V	3
MUS 203	Music Theory VI	3
MUS 204	Dictation & Sight Singing IV	2
MUS 205	Dictation & Sight Singing V	2
MUS 206	Dictation & Sight Singing VI	2
MUS 261	String Methods and Materials	2
MUS 263	Wind and Percussion (3 qtrs, 2 hrs each)	6
MUS 321	History and Lit. of Music	3
MUS 322	History and Lit. of Music	3
MUS 323	History and Lit. of Music	3

MUS 455	Basic Conducting	3
MUS 4568	Choral Conducting	3
MUS 458D	Vocal Pedagogy	2
	Music Theory Elective	3

Music Education - Instrumental Emphasis

Methods Courses

MUS 362	Teaching Inst. Music in Elem/Middle School	3
MUS 362L	Teaching Inst. Music in Elem/Middle Lab	1
MUS 363	Secondary School Instrumental Methods and Mat.	3
MUS 464	Marching Band Techniques	2
MUS 465	Jazz Ensemble Methods	2
Choose one course from:		
MUS 366	Teaching of Music in Elem. Grades	3
MUS 366A	Intro. to Orff Schulwerk	2
MUS 3668	Early Childhood Music Ed	3
MUS 468	General Music in Junior High School	3

Plus any additional methods courses that might be determined.

Multi-age music education professional and general education requirements must also be completed.

Major Requirements: 128 min.

Major Instrument (9 quarters. See music handbook)	18	
Minor Instrument (6 quarters. See music handbook)	12	
Major Performing Groups (min. one per quarter)	22	
MUS 090	Performance Lab (9 qtrs)	
MUS 101	Music Theory I	4
MUS 102	Music Theory II	4
MUS 103	Music Theory III	4
MUS 104	Dictation and Sight Singing I	1
MUS 105	Dictation and Sight Singing II	1
MUS 106	Dictation and Sight Singing III	1
MUS 125	Intro to Music History & Lit.	4
MUS 147	Class Voice	2
MUS 148	Class Voice	2
MUS 163	Intro to Music Education	2
MUS 178	Computer Skills for Musicians	2
MUS 201	Music Theory IV	3
MUS 202	Music Theory V	3
MUS 203	Music Theory VI	3
MUS 204	Dictation & Sight Singing IV	2
MUS 205	Dictation & Sight Singing V	2
MUS 206	Dictation & Sight Singing VI	2
MUS 261A	Upper String Methods and Materials	2
MUS 261B	Lower String Methods and Materials	2
MUS 263	Wind and Percussion (2 credits each)	12
MUS 304	Instrumentation	3
MUS 321	History and Lit. of Music	3
MUS 322	History and Lit. of Music	3
MUS 323	History and Lit. of Music	3
MUS 455	Basic Conducting	3
MUS 456A	Instrumental Conducting	3

Physical Education

Major code BS6312

Regardless of the college of the university from which you graduate, to achieve licensure through Ohio University to teach physical education, you must complete the following program and earn passing scores on the Praxis II exam. This program leads to a two-year provisional special field license in physical education allowing you to teach physical education in grades Pre-K–12 inclusive.

If you are interested in majoring in physical education, you are encouraged to meet with advisors in both the College of Education and the School of Recreation and Sports Sciences in the College of Health and Human Services.

Due to changes in Ohio state standards for licensing teachers, these requirements are subject to change. Contact the Office of Student Services, McCracken Hall 124, for additional information.

Required General Education Courses

You are required to fulfill Ohio University's general education requirements (Tier I, II, III). Note that some courses in the teaching field simultaneously fulfill Tier II requirements, such as:

BIOS 302's prerequisite of BIOS 103 or BIOL 101 fulfill Tier II Natural Science and Math;

HCCF 160 fulfills Tier II Social Sciences;

HLTH 202 fulfills Tier II Applied Science and Technology.

Admission to professional education requires that you complete the following courses with a grade of C or better in each:

PSY 101	General Psychology	5
INCO 103	Fundamentals of Public Speaking	4

Methods Courses

All courses must be completed with a grade of C or better.

PESS 310	Prin., Theories, & Methods of Teaching Early Childhood Physical Education	6
PESS 330	Prin., Theories, & Methods of Teaching Middle Childhood Physical Education	6
PESS 370	Prin., Theories, & Methods of Teaching Adol. & Young Adult Physical Education	6

Multi-age physical education professional requirements must also be completed.

Major Requirements: 65 min.

All courses must be completed with a grade of C or better.

Professional Core: 14 hours

PESS 125	Human Movement & Fitness Perspectives	4
PESS 202	Intro. to Teaching Phys. Ed.	3
PESS 227	First Aid	3
HLTH 202	Health Sciences & Lifestyle Choices	4
PESS 204	Hist. and Prin. of Phys. Ed.	4
PESS 205	Movement Skills, Rhythms, & Dance in Phys. Ed.	3

PESS 212	Intro to Coaching	3
PESS 240A	Sports & Games I	3
PESS 240B	Sports & Games II	3
PESS 302	Biomechanics	4
PESS 333	Adapted Phys. Ed.	4
PESS 345	Intro to Exercise Physiology	4
PESS 405	Motor Learning	4
PESS 409	Assessment in PE & Sport	4
BIOS 301 or BIOS 302	Human Anatomy for Majors Human Anat. for Non-majors	6 6
HCCF 160	Intro. to Child Development	4
REC 291	Outdoor Pursuits	3

Aquatics requirement: select one of the following courses (2-3 hours):

PESS 104	Intermediate Swimming	2
or PESS 218	Lifeguard Training	2
or PESS 220	Water Safety for Instructors	3

Physical Science (Chemistry and Physics)

Major code BS6310

You may earn a B.S.Ed. in the College of Education or a B.A. or B.S. in physics or chemistry in the College of Arts and Sciences and meet teacher licensure requirements. Regardless of the college of the university from which you graduate, if you wish to be licensed through Ohio University to teach physics and chemistry as major fields, you must complete the following program and earn passing scores on the Praxis II exam. The program prepares you for a two-year provisional license that qualifies you to teach physics and chemistry in grades 7–12 inclusive.

See also the integrated science major in this section.

Methods Courses

EDSE 440	Middle and Sec. School Science Methods	4
EDSE 440L	Middle and Sec. School Science Teaching Lab	1

Adolescent-young adult education professional and general education requirements must be completed.

Major Requirements: 103–104

Total Courses: 48–49

CHEM 151, 152, 153	Fund. of Chemistry	15
CHEM 241	Quantitative Analysis	4
CHEM 242	Quantitative Analysis Lab	1
CHEM 325	Instrumental Methods of Analysis	4
CHEM 476	Modern Inorganic Chem.	4
CHEM 489	Basic Biochemistry	4
GEOL 101	Intro to Geology	5
GEOL 255 or GEOL 221	Historical Geology Earth and Life History	4

MATH 263A, B, C	Calculus	12
MATH 340	Differential Equations	4
MATH 250 or PSY 120	Intro to Prob. and Stats. I Elem. Stat. Reasoning	4
PBIO 110 or BIOS 170	Intro to Plant Biology Intro to Zoology	6 or 5
PHIL 216	Philosophy of Science	3
PHYS 251, 252, 253	General Physics	15
PHYS 254	Contemporary Physics	3
PHYS 272, 273	Electronics Lab	4
PHYS 311, 312	Mechanics	8

Recommended Tier III:

T3 415A or T3 450B or T3 450C	Entropy and Hum. Activity Technology and Culture Society and New Tech.	4
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Intervention Specialist Education

Due to changes in Ohio state standards for licensing teachers, these requirements are subject to change. Contact the Office of Student Services, McCracken Hall 124, for additional information.

To receive a B.S.Ed. and licensure in intervention specialist education, you must complete one of the professional preparation programs for teaching exceptional children and receive passing scores on the Praxis II exam.

Students who seek admission into Intervention Specialist education courses may be subject to additional selective admission criteria beyond the College of Education's Selective Admission and Retention requirements.

Specific information about programs in hearing and speech is included under the College of Health and Human Services section of this catalog.

**Intervention Specialist: Mild-Moderate
Educational Needs
Major code BS6316**
Required General Education Courses**Humanities: 8**

Eight hours of humanities are required. Select from courses which meet the Tier II Humanities and Fine Arts requirements.

Natural Sciences: 5

Five hours of natural sciences containing a laboratory component are required. Select courses in natural science which meet Tier II Natural Sciences and Mathematics requirement.

Social Science: 12

Twelve hours of social sciences are required. Select from courses which meet the Tier II Social Sciences requirement.

Psychology: 9

PSY 101	General Psychology	5
PSY 120 or PSY 221	Elem. Stat. Reasoning Stat. for Behavioral Sciences	4 5

Communications: 4

INCO 103	Fund. of Public Speaking	4
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English: 9

ENG 151-153	Freshman Composition	5
ENG 305J-308J	Junior Composition	4

Fine Arts: 3

ART 360A	Visual Art Media for Elementary Teachers	3
or MUS 160 or MUS 282	Music Fundamentals Music Therapy Activities for Class	3 3
or REC 251	Art & Nature Crafts for Rec. Prog.	3
or THAR 113	Acting Fundamentals	4

Health: 4

HLTH 202	Health Sciences & Lifestyle Choices	4
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Hearing and Speech Therapy: 4

HSS 108	Intro to Speech Disorders	4
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Math: 4

MATH 120*	Elem. Topics in Math	4
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*Math 120 is recommended; however, any 4-hour math course numbered 120 or above is acceptable.

Physical Education & Recreation for Handicapped: 4

PESS 335	Adapted Physical Educ. for Special Education	4
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TIER III: 4

Any Tier III synthesis course is acceptable.

You must also complete Ohio University's General Education Requirements. Consult with your advisor to plan to meet both sets of requirements.

Major Requirements

All students pursuing teacher education programs at Ohio University are subject to Selective Admission and Retention Requirements prior to taking any education courses.

Education: 13

EDEL 330	Teaching Math, K-3	2
EDEL 330L	Field/Clinical in Teaching Math, K-3	1
EDEL 331	Teaching Math, 4-8	2
EDEL 331L	Field/Clinical in Teaching Math, 4-8	1
EDCI 301	Cultural Diversity & Ed.	3
EDCI 400	School, Society, & the Professional Educator	4

Reading Core: 10 or 19

(EDCI 220 and 325 are required for a two-year provisional license; 9 additional quarter hours are required for a five-year professional license which must be completed in the first or second year of teaching.)

EDCI 220	Phonics & Struc. of Lang.	5
EDCI 325	Lit. Centered Reading Inst.	5
EDCI 420	Reading in the Content Area	5
EDCI 421	Reading Instruction, Diagnosis, and Remediation	4

Block I (sophomore year, any quarter): 15

(The first three of the following courses must be taken concurrently.)

EDCI 200	Learning, Human Growth & Development	6
EDCI 201	Nature of Learners with Exceptionalities	3
EDCI 202	Field Experience in Typical & Exceptional Development	2
EDCI 203	Technological Appl. in Ed.	4

Block II (junior year, fall quarter): 17

EDSP 260	Field Exp. with Special Education Needs	4
EDSP 355	Technology Appl. in Sp. Ed.	4
EDSP 373	Curr. Plan for Learners with Special Neds	4
EDSP 374	Learners with Mild-Mod. Educational Needs	5

Block III (junior year, winter quarter): 17

EDSP 360	Field Exp. with Mild-Mod. Educational Needs	4
EDSP 370	Classroom Management	4
EDSP 376	Methods for Learners with Mild-Mod. Educational Needs	5
EDSP 485	Assess Learners with Special Needs	4

Block IV (junior year, spring quarter): 16

EDSP 460	Field Exp. with M-M Educational Needs	4
EDSP 377	Career Dev., Tran. & Sec. Meth. in Spec.	4
EDSP 401	Interventions for Emot. Beh. Needs	4
EDSP 477	Collaborate & Consult in Special Education	4

Intervention Specialist: Moderate-Intensive Educational Needs
Major code B56317

Required General Education Courses**Humanities: 8**

Eight hours of humanities are required. Select from courses which meet the Tier II Humanities and Fine Arts requirements.

Natural Sciences: 5

Five hours of natural sciences containing a laboratory component are required. Select courses in natural science which meet Tier II Natural Sciences and Mathematics requirement.

Social Science: 12

Twelve hours of social sciences are required. Select from courses which meet the Tier II Social Sciences requirement.

Psychology: 9

PSY 101	General Psychology	5
PSY 120	Elem. Stat. Reasoning	4
or PSY 221	Stat. for Behavioral Sciences	5

Communications: 4

INCO 103	Fund. of Public Speaking	4
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English: 9

ENG 151-153	Freshman Composition	5
ENG 305J-308J	Junior Composition	4

Fine Arts: 3

ART 360A	Visual Art Media for Elementary Teachers	3
or MUS 160	Music Fundamentals	3
or MUS 282	Music Therapy Activities for Class	3
or REC 251	Art & Nature Crafts for Rec. Prog.	3
or THAR 113	Acting Fundamentals	4

Health: 7

HLTH 202	Health Sciences & Lifestyle Choices	4
HLTH 227	First Aid	4

Hearing and Speech Therapy: 8

HSS 108	Intro to Speech Disorders	4
HSS 378	Sign Language	4

Math: 4

MATH 120*	Elem. Topics in Math	4
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*Math 120 is recommended; however, any 4-hour math course numbered 120 or above is acceptable.

Physical Education & Recreation for Handicapped: 4

PESS 335	Adapted Physical Educ. for Special Education	4
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TIER III: 4

Any Tier III synthesis course is acceptable.

You must also complete Ohio University's General Education Requirements. Consult with your advisor to plan to meet both sets of requirements.

Minor Area of Concentration: 12

A 2.75 g.p.a. is required in the minor courses. Common minors include: art, early childhood, human and consumer sciences, music, physical education, political science, psychology, recreation therapy, residential services, vocational adult services, social work, sociology, hearing and speech sciences. Courses taken to complete general education requirements may not apply toward the minor area of concentration.

Major Requirements

All students pursuing teacher education programs at Ohio University are subject to Selective Admission and Retention Requirements prior to taking any education courses.

Education: 10

EDCI 301	Cultural Diversity & Ed.	3
EDEL 330	Teaching Math, K-3	2
EDEL 330L	Field/Clinical in Teaching Math, K-3	1
EDCI 400	School, Society, & the Professional Educator	4

Reading Core: 10 or 19

(EDCI 220 and 325 are required for a two-year provisional license; 9 additional quarter hours are required for a five-year professional license which must be completed in the first or second year of teaching.)

EDCI 220	Phonics & Struc. of Lang.	5
EDCI 325	Lit. Centered Reading Inst.	5
EDCI 420	Reading in the Content Area	5
EDCI 421	Reading Instruction, Diagnosis and Remediation	4

Block I (sophomore year, any quarter): 15

(The first three of the following courses must be taken concurrently.)

EDCI 200	Learning, Human Growth & Development	6
EDCI 201	Nature of Learners with Exceptionalities	3
EDCI 202	Field Experience in Typical & Exceptional Development	2
EDCI 203	Technological Appl. in Ed.	4

Block II (junior year, fall quarter): 17

EDSP 260	Field Exp. with Special Education Needs	4
EDSP 355	Technology Appl. in Sp. Ed.	4
EDSP 373	Curr. Plan for Learners with Special Needs	4
EDSP 375	Learners with Mod.-Int. Educational Needs	5

Block III (junior year, winter quarter): 17

EDSP 361	Field Exp. with Mod.-Int. Educational Needs	4
EDSP 370	Classroom Management	4
EDSP 475	Methods for Learners with M-I Educational Needs	5
EDSP 485	Assess Learners with Special Needs	4

Block IV (junior year, spring quarter): 16

EDSP 461	Field Exp. with Mod.-Int. Educational Needs	4
EDSP 377	Career Dev., Tran. for Special Needs	4
EDSP 401	Interventions for Emot. Beh. Needs	4
EDSP 477	Collaborate & Consult in Special Education	4

Professional Laboratory Experience (senior year): 16

EDPL 461 and 462	Student Teaching	13
EDPL 465	Stu. Teaching Seminar	3

These courses are taken concurrently in one quarter and constitute the student teaching requirement. Apply for student teaching by December 1 of the year prior to the year in which you plan to student teach. For example, if you are doing student teaching during any of the three quarters of the school year 2000-2001, you should apply by December 1, 1999. For further information contact the Office of Student Services, McCracken Hall 124. You must complete all education courses before entering student teaching.

Russ College of Engineering and Technology

Stocker Center

Warren K. Wray
Dean

Jerrel R. Mitchell
Associate Dean for Research and Graduate Studies

Roger Radcliff
Associate Dean for Academics

Lori Lewis
Assistant Dean for Development

Marty North
Assistant Dean for Student Careers

The Fritz J. and Dolores H. Russ College of Engineering and Technology offers degree programs through the School of Electrical Engineering and Computer Science and the Departments of Chemical Engineering, Civil Engineering, Industrial and Manufacturing Systems Engineering, Mechanical Engineering, Aviation, and Industrial Technology. Engineering curricula are focused on the engineering profession, in which a knowledge of the mathematical and natural sciences—gained by study and experience—is applied to develop ways to use economically the materials and forces of nature for the benefit of society and the environment. Graduates have both the theoretical and practical training to begin a professional career or continue advanced work at the graduate level. Program flexibility is provided through technical electives so you can concentrate your studies in a chosen area or use the electives in other areas.

Education and university-based research and development in engineering and technology are vital to the future. Today's students are preparing for careers in some of the most exciting, promising, and critical of all modern undertakings. During the past decade, the Russ College of Engineering and Technology has accelerated toward the forefront in providing the leadership required to meet such challenges. Within its framework, aggressive learners can acquire the specific knowledge for a successful career, and individual talents can be adapted to preferences among the college's eight undergraduate programs.

The Russ College of Engineering and Technology was originally founded in 1935 as the College of Applied Sciences, but its origins date back to the earliest history of Ohio University; records show that surveying was among the first courses offered. The first engineering degree was granted in 1902. In 1985 the college moved into the C. Paul and Beth K. Stocker Engineering and Technology Center, and the Francis J. Fuller Aviation Training Center and Avionics Engineering Center hangar were completed in 1989.

In 1994, the college was renamed the Fritz J. and Dolores H. Russ College of Engineering and Technology and an 18,000-square-foot addition to Stocker

Center was completed, providing additional laboratory space for undergraduate and graduate study and for multidisciplinary research. In 1996 the Konneker Research Laboratory was opened for expanded research in biotechnology. Two new facilities recently opened, one for advanced pavement research and one for advanced research in corrosion.

In 1996 the Board of Trustees established the Robe Leadership Institute in the Russ College to promote and encourage effective engineering leadership among the students, faculty, and administrators. Currently, a Leadership Seminar in Engineering is available to seniors and graduate students in the College together with a Leadership Resource Center, named after Gerald Loehr, for materials on leadership.

All engineering programs are accredited by the Engineering Accreditation Commission of the Accreditation Board of Engineering and Technology (ABET).

The industrial technology program is accredited by the National Association of Industrial Technology, and the aviation curriculum is approved by the Federal Aviation Administration.

Admission to Engineering and Technology Programs

Upon admission to Ohio University, an entering freshman who has an objective of obtaining a degree in engineering, computer science, aviation, or industrial technology may request direct entry into the Russ College of Engineering and Technology. In addition to the general requirements for admission to Ohio University, there are special requirements for all applicants seeking admission to one of the engineering or computer science degree programs.

In general, direct entry into an engineering or computer science degree program of the Russ College of Engineering and Technology depends upon your qualifications and preparation. The criteria listed below are the minimum preparation recommended for all engineering and computer science degree programs. However, when other considerations tend to discount low academic grades or college aptitude test scores, direct entrance may be requested if there is other persuasive evidence of both the capability and motivation to successfully undertake an engineering or computer science program.

The industrial technology curriculum combines courses in general education, math and computer science, physical science, and management with hands-on manufacturing courses to prepare graduates for technical/management positions in manufacturing industries. You may request direct entry into the industrial technology program. There are no admission requirements above the general university requirements.

The aviation curriculum prepares students for a variety of positions as professionals in the increasingly complex national aviation system. You may request direct entry into the aviation program, but only a limited number of applicants can be accepted. Those not accepted may enter the university for possible transfer into the program at a later date; there is no guarantee, however, that space will be available.

Freshman Applicants

Direct Entry into Engineering and Computer Science Programs

Recent high school graduates, or transfer students who have earned fewer than 30 quarter hours (or 20 semester hours) of credit at Ohio University or another accredited collegiate institution, seeking direct entry admission to the Russ College of Engineering and Technology should have a minimum composite score of 24 ACT or 1100 (recentered) SAT. Applicants not meeting either of these two criteria, but with a good high school academic record that includes four years of mathematics, four years of English, and one year each of physics and chemistry, may also apply for direct entry into the college. Students with a strong background in mathematics and science may be admitted with one unit of chemistry or physics, with the missing area to be completed during the first year.

Applicants Not Having Minimum Preparation for Direct Entry

If you do not meet the above minimum preparations, you may enter the pre-engineering program in University College to develop your abilities in the areas of mathematics, chemistry, and English before applying for entry into the Russ College of Engineering and Technology. Following this preparation, entry into the college can be accomplished by earning a grade-point average (g.p.a.) of 2.0 or above in each of the following groups of courses and by meeting a minimum overall g.p.a. of 2.0 on a 4.0 scale.

- 1 MATH 263A, 263B
- 2 CHEM 121, 122 or CHEM 151, 152 as required by intended major
- 3 Freshman English requirement
- 4 ET 280 (not required for Chemical Engineering) or ME 100

Those wishing to major in computer science follow the above program but substitute the computer science laboratory science sequence for chemistry. ET 280 is not required.

If you are entering the pre-engineering program in the University College with an intended engineering or computer science major but do not meet minimum preparation for direct entry into Russ College of Engineering and Technology,

you will be identified as a pre-engineering major in the University College and will be assigned an engineering or computer science advisor. You may require more than four academic years to complete the degree requirements.

If your record includes mathematics and science courses beyond the above minimum required courses, you will be evaluated on the basis of your accumulative record and upon individual grades in English, mathematics, chemistry, physics, and engineering-related courses that you have completed at the time you apply for admission to the Russ College of Engineering and Technology.

Applicants From Another Country

Admission of applicants from other countries will be based on official transcripts, pertinent documentation of all secondary and postsecondary work, and other evidence as required by the university and Russ College of Engineering and Technology.

Evaluation of work and admission of applicants will be performed by the university examiner and the Russ College of Engineering and Technology.

Applicants from foreign countries must meet the criteria given in this catalog under "International Applicant" in the Admissions section.

Transfer Students

Qualified transfer students are accepted within the guidelines that follow. Your application will be considered on an individual basis, and entrance into the Russ College of Engineering and Technology will be based on your qualifications. Transfer credits applicable to engineering and technology degrees are determined by the college and the program department.

You must earn a minimum of 36 quarter hours at Ohio University, applicable toward your degree, after transferring into one of the college's degree programs.

If you have earned fewer than 30 quarter hours of credit, you are required to meet the minimum preparation designated for entering freshmen.

In general, transfer applicants into one of the engineering or computer science programs from other universities and colleges will be evaluated on accumulative g.p.a. on all college work attempted and on individual grades in English, mathematics, chemistry, physics, and engineering-related courses which may have been completed at the time application is made.

Transfer applicants for the industrial technology and aviation programs will be evaluated on accumulative g.p.a. and specific courses completed.

If you have left another institution for academic or disciplinary reasons, you will not be considered for admission until after two calendar years following the date from which you were dropped from another university or college.

Transfer from Other Universities or Colleges Outside Ohio University

Applicants from other accredited collegiate institutions are expected to have the minimum preparation set forth for entering freshmen and to meet the university's transfer policy. If you are eligible to transfer into the university but do not meet the criteria specified for entering freshmen, you may be considered for admission provided you have met the following criteria: (1) you have demonstrated abilities in mathematics and science by earning a minimum of 2.5 on a 4.0 scale in all mathematics and science courses attempted at the institution from which you are transferring; and (2) your overall g.p.a. is above the acceptable minimum level.

If your credentials are equivalent to those of freshmen who entered University College (see "Freshman Applicants") and you have demonstrated abilities in mathematics, natural science, physical science, and English, you may be admitted to an engineering program.

If you are from a two-year institution following a recognized and accredited University Parallel program, you will be evaluated according to the conditions stated for accredited four-year institutions.

To transfer into one of the engineering degree programs from a two-year institution following an associate's degree program in technology, you must have a minimum g.p.a. of 3.0 on a 4.0 scale and indicated abilities in mathematics and science. Transfer courses will be

evaluated to determine their applicability toward degree requirements. In general, ABET prohibits purely technical courses being equated to engineering courses.

Transfer students from other accredited universities or colleges may directly enter the industrial technology program providing they meet all Ohio University admission requirements, including an overall 2.5 g.p.a. After transferring into the industrial technology program, you must earn a minimum of 36 quarter hours of industrial technology credit at Ohio University with at least 24 credit hours at or above the 300 level.

Transfer from Other Colleges Within the University

To transfer from another college within the university, you are expected to have the same preparation as entering freshmen or to have attained the equivalency of a freshman who entered University College and completed the specified mathematics, natural science, physical science, and English courses (see "Freshman Applicants") with the specified g.p.a.

If you do not meet the above criteria, you will be evaluated on an individual basis; however, you must have earned a 2.0 average or better on a 4.0 scale in all mathematics and science courses attempted.

Relocating from a Regional Campus

If you are relocating from a regional campus and have not been admitted to the Russ College of Engineering and Technology as an entering freshman, you are required to meet the same criteria as students transferring from other colleges within Ohio University.

Academic Requirements

Advising and Program Planning

Indicate your choice of discipline on the official application for admission to the university to assure the assignment of a faculty advisor in the department of your choice. If you have not decided upon a specific major within the college (major code ND0910), the associate dean for academics or the appropriate designate will serve as your advisor until you choose a major. If you are in an engineering or computer science program and have demonstrated abilities

in the mathematics and science courses needed for the program you can, with approval of the dean's office, change your major within the college and are eligible to take courses in all colleges of the university.

If you do not request direct entry into the Russ College of Engineering and Technology or do not possess the minimum preparation indicated above, you will be enrolled in the pre-engineering major (major code ND1105) in University College (see the University College section for details). Students enrolled in the pre-engineering major will be advised by a selected number of engineering faculty designated by the associate dean for academics. For further information, contact the various department chairs or the associate dean for academics.

Course requirements for the freshman year in each of the engineering departments within the Russ College of Engineering and Technology are similar. (The mechanical and chemical engineering freshman programs are slightly different.) Hence, while it is desirable to indicate a specific major field of study earlier, you can defer a decision on a specific major field of study until the beginning of your sophomore year.

After completing one of the engineering degree programs in the Russ College of Engineering and Technology, you are qualified and encouraged to seek, by examination, registration as a professional engineer from the Board of Registration for Professional Engineers of the state where you intend to practice. It is to your advantage to take the examination during the spring quarter closest to the expected time of graduation or as soon after graduation as possible.

With careful planning you may, in addition to the Bachelor of Science degree from this college, obtain a second degree or a minor from another college in the university. (See "A Second Bachelor's Degree" in the University-Wide Graduation Requirements section.)

Marietta College and the Russ College of Engineering and Technology at Ohio University have agreed to participate in an alliance that will provide opportunities for students studying at either school to pursue engineering degrees not currently offered at their respective schools. This will be accomplished through a binary program that offers

students the opportunity to earn a degree from each institution in disciplines to be formally decided upon by each respective school. See the associate dean for academics for details.

Graduate programs leading to the M.S. degree are available in all of the engineering programs. In addition, graduate work leading to the Ph.D. degree is available in chemical engineering, electrical engineering, and an interdisciplinary program in integrated engineering. These programs are described in detail in the *Graduate Catalog*.

Degree Requirements

As a candidate for a degree in the Russ College of Engineering and Technology, you must satisfy all of the curriculum requirements that are applicable toward a degree in your particular field as specified on the following pages. You must earn a minimum of 36 quarter hours applicable toward your degree after entering one of the degree programs. In addition, you must:

- 1 Have a 2.0 (C) average on all courses attempted which are applicable toward a degree.
- 2 Have a 2.0 (C) average on all courses attempted in the Russ College of Engineering and Technology that are applicable toward a degree.
- 3 Have a 2.0 (C) average on all courses attempted in the major area of study that are applicable toward a degree.
- 4 Successfully complete a course by the end of the third enrollment in that course. "Enrollment" includes classes in which WP or WF grades were earned.

Averages will be computed on final hours and points in repeated courses, if any.

Requirements for Continuing in the College

Once you are enrolled in the Russ College of Engineering and Technology, you will continue in your program unless there is demonstrated weakness in the mathematics, science, and engineering-related subjects that indicates your inability to meet the academic requirements of the program. The associate dean for academics and department chair will make decisions concerning cases of this nature, and you will be notified accordingly.

In addition to the above overall performance, you must meet the specific requirements listed under "Deficiency Points" and "Retaking Courses."

Deficiency Points

Once you are enrolled in the Russ College of Engineering and Technology you will continue in your program in a normal manner, provided:

- 1 You maintain an average of 2.0 (C) or better in all hours attempted at Ohio University that are applicable toward a degree.
- 2 You maintain an average of 2.0 (C) or better in all hours attempted in the Russ College of Engineering and Technology that are required for graduation (including technical electives). There are several computer science courses that are not included in the g.p.a. computation.
- 3 You maintain an average of 2.0 (C) or above in all courses attempted in your major area of concentration that are applicable toward the degree. There are several computer science courses that are not included in the g.p.a. computation.

Averages in any of these categories below 2.0 (C) result in deficiency points and probation. If you are on probation or acquire deficiency points in any quarter, your academic record is reviewed by the associate dean for academics to determine if you may continue in the program. If you are placed on university probation at the end of any quarter, you must earn a minimum of nine quarter hours of credit with a 2.0 (C) or better average in your next quarter of attendance or be dropped from the university. These credits must be in courses directly applicable to the degree requirements.

In the subsequent quarter, if your academic progress is such that you are not eligible to be removed from probation, your academic record will be reviewed to determine if you should be continued. The number of times a continuance may be granted is limited to three; thus, there is an absolute limit of four consecutive quarters on probation. Although the maximum number of times you may be continued on probation is four, if you are on probation you may be dropped at the end of any quarter for poor academic performance.

If you are placed on college or departmental probation at the end of any quarter, you must receive a 2.0 (C) average or better in subsequent quarters in your engineering and technology and/or major courses or you will be dropped from the Russ College of Engineering and Technology. In addition, you normally must remove deficiency points in the engineering and major subjects within two quarters. You should discuss your probation with your academic advisor, departmental chair, and/or the associate dean for

academics. If you are dropped from the university or the college, you may appeal by contacting the associate dean for academics.

Normally, a petition for reinstatement will not be considered until 12 months after you are dropped.

Retaking Courses

As a student in the Russ College of Engineering and Technology, you must succeed in a required program course by the third time you enroll in the course. ("Enroll" means being on the class roster after the fourteenth-day drop date.) If you do not meet this requirement, you will be dropped from your program. Success is a passing grade or, in those courses in which a grade of C or C- is required to continue a sequence, a minimum grade of C or C-.

When you retake a course, only the grade received in the most recent attempt is used to determine your accumulative g.p.a. You may not retake a course after an advanced course in the same field has been passed if the course that you desire to retake was a prerequisite for the advanced course.

Course Credit by Examination or correspondence may not be used to earn credit in a course required for graduation which you have previously failed.

Humanities and Social Science Electives

Students in engineering and technology are required to take courses in humanities and social sciences. Each engineering curriculum includes a requirement for electives in these areas to be chosen from the courses listed below.

Only formal courses are acceptable unless prior approval is given from the dean's office. Courses in selected topics, independent study, etc., are not acceptable without this prior approval. Courses in education, business, or other professional areas, or courses that are remedial or skills oriented, are not acceptable. Without prior approval from the dean's office, courses not on this list will not apply towards the humanities and social sciences requirements for the Russ College of Engineering and Technology.

For engineering majors, ABET requirements specify that you develop a plan for electives that provides breadth and depth through a series of interrelated courses. You must have at least 24 hours total in humanities/social sciences with a minimum of 8 in each category and a sequence or basic/advanced pair in both categories. (A sequence is a pair of courses in the same department in which one is a prerequisite for the other. A basic/advanced pair is a 300- or 400-level course along with a companion course in the same department. The companion need not be a prerequisite for the 300- or 400-level course.)

Industrial technology majors must select three courses (one must meet Tier 2H or 2C requirements) and have a minimum of 12 credit hours. With prior approval, aviation majors can take alternate courses in place of the ones marked with an E (elective).

Humanities/Social Science Electives for Engineering Degree Students

Humanities

- a** Art (ART 110, 393A)
- b** African American Studies (AAS 106, 110, 150, 210, 211, 250, 310, 315, 316, 317, 350, 352, 355, 356)
- c** Art History (AH except 350)
- d** Classical Archaeology (CLAR 201, 203, 352)
- e** Comparative Arts (CA except 360J)
- f** Dance (DANC 170, 351, 352, 353, 370, 471, 472, 473)
- g** English (ENG 200 level or above, except 280, 305J, 307J, 308J, 350, 353, 361, 362, 363, 393, 394, 395, 451, 452)
- h** Film (201, 202, 203)
- i** Foreign Language: 200 level or above, may not be your primary language
- j** Foreign Literatures in English (CLAS except 227; FL; ML except 250A-C)
- k** Great Books (HUM 107, 108, 109, 117, or 307, 308, 309)
- l** History (HIST 121, 122, 123, 314A-F, 328, 329A-C, 330, 351, 352, 353A-B, 354, 356A-C, 357, 370, 389)
- m** History of Theater (THAR 270, 271, 272)
- n** Music History and Literature (MUS 120, 124, 125, 321, 322, 323, 421A-G, 427, 428)
- o** Philosophy (PHIL except 120, 320, 360J, 417, 425, 426, 427)
- p** Women's Studies (WS 100, 200, 250A)

Social Science

- a** African American Studies (AAS 101, 135, 202, 220, 225, 235, 254, 340, 341, 345, 360, 364, 368, 370, 380, 430, 432, 440, 460, 482)
- b** Anthropology (ANTH except 201, 356J, 378, 492, 494B, 494D, 496)
- c** Economics (ECON except 300, 381, 385, 482)
- d** Engineering and Technology (ET 320, 350)
- e** Geography (GEOG 121, 131, 132, 201, 220, 232, 233, 234, 321, 322, 325, 326, 330, 331, 332, 335, 338, 427, 455)
- f** History (HIST except 301J, 396J, 496, and those listed in k. under humanities)
- g** International Studies (INST 103, 113, 118, 121, 350)
- h** Linguistics (LING except 410, 445, 451, 452, 453, 460, 480, 481, 482, 483)
- i** Political Science (POLS except 305J, 482, 483)
- j** Psychology (PSY except 120, 121, 221, 226, 275, 312, 314, 315, 321, 327, 341, 351)
- k** Social Work (SW except 190, 380, 381, 383, 385, 490A-C)
- l** Sociology (SOC except 351, 352, 356J, 450)
- m** Women's Studies 400

English Requirement

In addition to the curricular requirements as stated on the following pages for departments in engineering and technology, you must also satisfy the university curricular requirements in English.

General Education Requirement

Plan your curriculum to fulfill the university General Education Requirements as described under the Graduation Requirements section of this catalog.

Students seeking an engineering degree who fulfill the breadth and depth requirements described in the previous section "Humanities and Social Science Electives" will automatically satisfy the General Education Tier II requirements.

Pass/Fail Option

You may elect to take courses on a pass/fail basis within eligibility requirements stated in the Academic Policies and Procedures section. Any course taken on a pass/fail basis cannot be applied toward degree requirements.

Cooperative Education

Cooperative education opportunities and internships are available in the Departments of Chemical Engineering, Civil Engineering, Electrical Engineering and Computer Science, Industrial and Manufacturing Systems Engineering, and Mechanical Engineering, as well as in Industrial Technology. Students participating in cooperative education alternate periods of on-campus study with roughly equal periods of worksite experience according to established schedules. If you participate in this plan, you will require more than the normal four years to complete degree requirements. ABET does not allow cooperative education experiences to replace coursework.

Participation in cooperative education provides valuable career experiences. The alternating work/study periods allow you to integrate classroom theory with practical applications and provide you with opportunities to earn money to assist in financing your education. You can also participate in summer internships.

If you are interested in these programs, contact the assistant dean for student careers, Stocker 169.

Financial Aid

In addition to the financial aid program sponsored by the university, the Russ College of Engineering and Technology and its departments have separately funded scholarships. If you are applying for scholarships through university channels, you are considered for both university and college scholarships. The college also has established a student loan fund for upperclass students needing assistance. Information is available in the dean's office, Stocker Center.

Exploratory (Undecided) Engineering Students

Major code ND0910

Each year a substantial number of new students entering the Russ College of Engineering and Technology do so without a firm commitment to any one of the engineering programs offered by the college. The schedule below is suggested for these students and will meet most of the first-term requirements of all engineering departments.

Freshman Fall

CHEM 151	General Chem.	5
ET 280	Engr. and Tech.— An Overview	4
MATH 263A	Analytic Geom. and Calc.	4
	Freshman English requirement*	5

Winter

CHEM 152	General Chemistry	5
INCO 103 or IT 101†	Fund. of Public Speaking Engr. Drawing 1	4 3
MATH 263B	Analytic Geom. and Calc.	4
	Other†	3–5

Spring

CHEM 123 or 153*	General Chemistry	4–5
ET 181	Computer Methods in Engr.	4
MATH 263C	Analytic Geom. and Calc.	4
	Other†	7–9

Faculty advisors will assist with choosing satisfactory electives.

*As required by the department

†All departments will accept INCO 103 Public Speaking to fulfill the speech requirement, and some require IT 101 Engr. Drawing I. These should be taken during the first year. Approved social sciences and/or humanities electives can also be scheduled for this term.

Degree Programs

Aviation

Students in the aviation program can complete their bachelor's degree requirements under either of two options: flight or aviation management. A two-year A.A.S. degree in aviation technology is also available at Ohio University.

The flight option meets the guidelines of the Federal Aviation Administration (FAA) and prepares students for career opportunities in commercial aviation as FAA-certified pilots, aircrew members, and other positions in aviation-related business and industry. An aviation degree provides students with the ability to undertake roles in the national aviation system and to progress to supervisory and managerial positions with necessary leadership and human relations skills. Additionally, this educational background gives graduates the broad knowledge base, perspective, and flexibility to compete in the increasingly technical and automated environment of aviation.

You are expected to complete all flight course requirements in one quarter. However, in extenuating circumstances (bad weather, etc.) you can, with permission, carry over completion

of the course in the following quarter. If you do not complete the requirements in this second quarter, you may be automatically dropped from the program.

You must maintain a 2.0 overall g.p.a. to enroll in flight courses. Flight option majors must receive a grade of at least a C in AVN 110, AVN 310, AVN 350, and AVN 440. It is possible to substitute elective courses in the curriculum as long as you maintain the minimum total credits for that subject area and obtain prior approval in writing from the department/college.

Flight option majors must take AVN 400, AVN 420, AVN 430, AVN 445, and AVN 455 at Ohio University.

Bachelor of Science in Aviation—Flight Option

Major code BS7258

General Education Requirements

General Studies: 38 hours

ENG 151 or ENG 152 or 153	Freshman Comp. (1E)	5
PSY 101	General Psychology (2S)	5
INCO 101	Fundamentals of Human Communication (2H)	4
INCO 103	Fund. of Public Speaking	4

Choose a minimum of 8 hours from the classes below

ECON 103	Microeconomics (2S)	4
ECON 104	Macroeconomics (2S)	4
POLS 101	American National Government (2S)	4
GEOG 121	Human Geography (2S)	4

Choose a minimum of 4 hours from the classes below

INCO 205	Group Discussion	4
INCO 206	Comm. in Inter- personal Relationships	4
INCO 342	Communication and Persuasion	4

Choose a minimum of 8 hours from the classes below

ENG 305J	Technical Writing (1J)	4
PHIL 101	Fund. of Philosophy (2H)	5
ART 110	Seeing and Knowing the Visual Arts (2H)	3
ENG 200	Intro to Literature (2H)	4

Math/Science/Technology: 39 hours

MATH 115	Pre-Calculus (1M)	5
PHYS 201, 202	Intro to Physics (2N)	10
PSY 120	Elementary Statistics	4
GEOG 101	Elements of Physical Geography (2N)	5
GEOG 302	Meteorology	5
GEOG 304	Obs. in Meteorology and Forecasting	2

Choose a minimum of 8 hours from the classes below

MATH 113	Algebra (1M)	5
PSC 100	Survey of Astronomy (2N)	4
GEOG 201	Environmental Geography	4
GEOG 405	Forecasting in Meteorology	2

Computer Science: 9 hours

CS 120	Computer Literacy	4
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Choose a minimum of 10 hours from the courses below

CS 220	Intro to Computing	5
CS 223	Intro to Computing for Business	5
CS 230	Computer Programming	5

Management and Human Resource Management: 16 hours

MGT 200 or MGT 202	Intro to Management (2S)	4
MGT 340	Organizational Behavior	4

Choose a minimum of 8 hours from College of Business courses 200 or above.

Aviation Core Requirements**Aviation Core : 24 hours**

AVN 100	Intro to Aviation	4
AVN 110	Basic Aeronautics	4
AVN 300	Aviation Laws and Regulations	4
AVN 305	Aviation Weather	4
AVN 315	Aviation Safety	4
AVN 360	Natl. Airspace System	4

Option Requirements**Flight Education: 62 hours**

AVN 240	Private Pilot Flight	4
AVN 310	Adv. Aeronautics	4
AVN 320	Adv. Aircraft Systems	4
AVN 340	Commercial Flight I	4
AVN 350	Instrument Flight Systems and Procedures	4
AVN 400	Commercial Flight III	4
AVN 405	Advanced Cross Countries	4
AVN 420	Commercial Flight IV	4
AVN 430	Multi-Engine Flight	2
AVN 440	Flight Instructor Ground	4
AVN 445	Flight Instructor Flight	4
AVN 450	Instrument Instr. Ground	3
AVN 455	Instrument Instr. Flight	4
AVN 475	Aviation Internship	2
AVN 390	Airline Oper. and Mgt.	4
AVN 480	Gen. Aviation Operations and Management	4
AVN 489	Transition to Aviation Industry	2
IT 220	Aircraft Powerplants	3

Choose additional electives from:

AVN 435	Flight Engineer	4
AVN 465	Multi-Engine Flight Instr.	2
	Tier III	4

Total hours required 192

Note: You must meet all university General Education Requirements in order to graduate.

**Bachelor of Science in Aviation—
Aviation Management Option
Major code BS7261**
General Education Requirements**General Studies: 38 hours**

ENG 151 or ENG 152 or 153	Freshman Comp. (1E)	5
PSY 101	General Psychology (2S)	5
INCO 101	Fundamentals of Human Communication (2H)	4
INCO 103	Fund. of Public Speaking	4
ECON 103	Microeconomics (2S)	4
ECON 104	Macroeconomics (2S)	4

Choose a minimum of 4 hours from the classes below

INCO 205	Group Discussion	4
INCO 304	Interviewing	4
INCO 342	Communication and Persuasion	4

Choose a minimum of 8 hours from the classes below

ENG 305J	Technical Writing (1J)	4
PHIL 101	Fund. of Philosophy (2H)	5
ART 110	Seeing and Knowing the Visual Arts (2H)	3
ENG 200	Intro to Literature (2H)	4

Math/Science/Technology: 39 hours

MATH 115	Pre-Calculus (1M)	5
PHYS 201	Intro to Physics (2N)	5
PSY 120	Elementary Statistics	4
GEOG 101	Elements of Physical Geography (2N)	5

Choose a minimum of 20 hours from the classes below

MATH 113	Algebra (1M)	5
PSC 100	Survey of Astronomy (2N)	4
COMT 101	Comm. Systems Mgt. (2A)	4
HLTH 202	Health Sciences and Lifestyle Choices (2A)	4
GEOG 302	Meteorology	5

Computer Science: 9 hours

CS 120	Computer Literacy	4
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Choose a minimum of 5 hours from the courses below

CS 220	Intro to Computing (1M)	5
CS 223	Computing for Business	5
CS 230	Comp. Programming (2A)	5

General Electives: 28 hours

Tier III	4
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Choose at least 23 hours of university courses to meet the 192-hour requirement (AVN 240 is recommended).

Aviation Core Requirements**Aviation Core: 24 hours**

AVN 100	Intro to Aviation	4
AVN 110	Basic Aeronautics	4
AVN 300	Aviation Laws and Regulations	4
AVN 305	Aviation Weather	4
AVN 315	Aviation Safety	4
AVN 360	Natl. Airspace System	4

Option Requirements**General Business: 44 hours**

ACCT 101	Financial Accounting	4
ACCT 102	Managerial Accounting	4
MGT 202	Management	4
MGT 340	Organizational Behavior	4
HRM 420	Human Resource Mgt.	4
FIN 325	Managerial Finance	4
BUSL 255	Law and Society	4

Choose 16 credit hours from the courses below. Note: You may not exceed 44 credit hours in College of Business courses.

MGT 430	Management Systems—Decision Making	4
BUSL 356	Law of Mgt. Process	4
ECON 305	Managerial Economics	4

Choose an additional 4 credit hour College of Business course, 300 or higher.

Aviation Management: 12 hours

AVN 390	Airline Oper. and Mgt.	4
AVN 480	General Aviation Oper. and Mgt.	4
AVN 475	Aviation Internship	2
AVN 489	Transition to Aviation Ind.	2

Total hours required 192

Note: You must meet all university General Education Requirements in order to graduate.

Chemical Engineering**Bachelor of Science in Chemical Engineering****Major code BS7251**

The chemical engineering curriculum is designed so that its graduates are familiar with the techniques used in analyzing and solving engineering problems associated with chemical and related industries (petroleum, metallurgical, plastics, pollution control, etc.). The goal of the Department of Chemical Engineering is to educate men and women who, as graduates of the program, are able to analyze industrial chemical engineering problems and synthesize solutions to those problems, compare favorably in their knowledge of chemical engineering with students completing similar programs nationally, and use their training as a springboard to further professional and career development. In addition to preparing students for rewarding jobs in the chemical process industries, the program provides an excellent background for graduate study in engineering, science, business administration, law, and medicine.

Graduates of our chemical engineering program will be able to identify, formulate, and solve engineering problems in a setting which simulates the professional practice of B.S.-level chemical engineers; understand and correctly apply key qualitative concepts central to the chemical engineering discipline; routinely demonstrate appropriate and effective communication skills; design and conduct experiments, as well as to analyze and interpret data; show initiative, curiosity, tenacity, and an ability to work both independently and in teams; use computer tools necessary for engineering practice; accept responsibility to protect both occupational and public health and safety; and demonstrate professional attitudes and behaviors.

The Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology defines engineering as "that profession in which knowledge of the mathematical and natural sciences gained by study, experience, and practice is applied with judgement to develop ways to utilize, economically, the materials and forces of nature for the benefit of mankind." In our chemical engineering program, we emphasize the application of principles from many fields of study to the solution of chemical engineering problems. Study in chemistry, mathematics, physics, and communications skills is emphasized. Courses in chemical engineering fundamentals (material and energy balances in chemical processes) are introduced, followed by intensive work in engineering science and analysis (heat, mass, and momentum transfer; chemical thermodynamics; chemical reaction engineering; continuous and stage-wise separation processes; process dynamics and control). Computer solutions and similar topics are stressed. An understanding of the ethical, social, economic, and safety considerations in engineering practice is stressed throughout the curriculum. The appreciation of these professional concepts is incorporated as a part of all engineering course work. Engineering science and analysis are combined with appropriate engineering synthesis and design experiences throughout the curriculum, starting in the freshman year, and culminating in a two-quarter senior-level capstone course in the design of chemical plants. The capstone design experience incorporates and integrates much of the subject matter learned from the previous courses in the curriculum. Elective courses permit students to pursue interests in humanities, social sciences, and various areas of technical interest.

**Freshman
Fall**

CHEM 151	Fund. of Chemistry I	5
MATH 263A	Calculus	4
INCO 103	Public Speaking ¹	4
ENG 151	English Composition	5
Winter		
CHEM 152	Fund. of Chemistry II	5
MATH 263B	Calculus	4
CHE 100	Intro Chemical Engineering	1
	Soc. Sci. or Hum. ²	8

Spring

CHEM 153	Fund. of Chemistry III	5
MATH 263C	Calculus	4
CHE 101	Approaches to ChE Problem Solving	4
	Soc. Sci or Hum ²	4

Sophomore**Fall**

CHEM 305	Organic Chemistry	3
MATH 263D	Calculus	4
PHYS 251	General Physics	5
CHE 331	Principles of Engr. Mat.	4

Winter

CHEM 306	Organic Chemistry	3
MATH 340	Differential Equations	4
PHYS 252	General Physics	5
CHE 200	Material Balances	4
CHE 418	Engr. Materials Lab	2

Spring

CHEM 303	Organic Chem. Lab	2
CHE 201	Energy Balances	4
PHYS 253	General Physics	5
CHEM 307	Organic Chemistry	3
CE 301	Applied Mechanics	5

Junior**Fall**

CHE 305	ChE Thermodynamics	4
CHE 400	Appl. Chem. Eng. Calc.	3
CHE 345	ChE Fluid Mechanics	5
CHEM 453	Physical Chemistry	3
ENG 305J	Junior Composition or other jr-level comp. ⁴	4

Winter

CHE 306	ChE Phase Equilibria	4
CHE 307	Kinetics I	3
CHE 346	ChE Heat Transfer	5
CHEM 454	Physical Chemistry	3
	Soc. Sci. or Hum. ²	4

Spring

CHE 308	Kinetics II	4
CHE 347	Mass Transfer and Separations	5
CHE 408	Engr. Experimental Dsgn.	3
CHEM 456	Phys. Chemistry Lab	3
CHEM 459	Physical Chemistry	3

Senior**Fall**

CHE 415	Unit Operations Lab I	3
CHE 442	Proc. Control	4
CHE 443	ChE Design I	5
EE 313	Basic Elec. Engr. I	3
	Soc. Sci. or Hum. ²	4

Winter

CHE 417	Process Control Lab	2
CHE 444	ChE Design II	5
	Soc. Sci. or Hum. ²	4
	Technical Electives ³	6

Spring

CHE 416	Unit Operations Lab II	3
	Tier III requirement	4
	Technical Electives ³	6

The program listed above contains 211 hours of courses for the degree.

¹ May be taken in any order.

² In general, courses outside the chemical engineering sequence can be taken at any time provided prerequisites have been met. A minimum of 24 hours must be taken in social studies and humanities, with at least 8 hours in each area (including the depth requirement described in "Humanities and Social Sciences Electives") and adherence to university General Education Requirements.

³ Minimum list available in departmental office. These are courses in the areas of engineering, chemistry, mathematics, physics, plant biology, microbiology, and geology. Minimum of three chemical engineering and nine additional CHE or other technical elective hours required.

⁴ Does not count toward ENT humanities.

Civil Engineering**Bachelor of Science in Civil Engineering****Major code BS7252**

Civil engineering evolved as a formal discipline at the start of the 19th century as a response to society's needs for increased mobility and convenience. Today's civil engineers deal primarily with public and private infrastructure and its relation to the environment, which includes planning, design, construction and maintenance of transportation systems, bridges, dams, buildings, water supply/distribution/treatment systems, wastewater and storm water collection/treatment/disposal systems, irrigation systems, and flood control. Civil engineers also operate public and private works, and design environmental protection for water, air, and land.

The Civil Engineering program at Ohio University is designed to prepare the student for a productive career in government and/or the private sector, as well as advanced graduate study. The goals of the program are to: (1) prepare graduates to enter and continue the practice of civil engineering; (2) provide opportunities for students to participate in basic and applied research in order to discover, disseminate and apply new knowledge; (3) encourage new and innovative approaches to improve civil engineering education; and (4) communicate the purpose and performance of the civil engineering program to public, industrial and governmental sectors.

The curriculum builds a sound foundation in basic sciences and mathematics, followed by courses in engineering science and design that provide a solid base for life-long professional learning. Engineering courses and laboratories provide an opportunity for students to experience those principles and standard practices that they will encounter in their careers. The curriculum is oriented to develop a student's ability to think logically and to apply the knowledge gained to the design and synthesis of complex civil engineering projects. The program provides an integration of design experience from the freshman year to the senior year, culminating in a capstone design course. The senior capstone course provides a comprehensive design experience for students that encompasses ethical, social, economic and safety issues. Engineering design, team problem solving and communication skills are emphasized throughout the curriculum. Students pursue areas of

interest by selecting appropriate technical electives in the areas of environmental; geotechnical and engineering materials; structures; transportation; and water resources. Graduates of the program are prepared to become registered engineers. An optional program is available for those who want to become registered surveyors.

A co-op program is open to qualified civil engineering students, who can obtain technical experience and income by working for private or government organizations while still in school. Students who participate in the co-op program typically take more than four years to complete degree requirements.

Freshman Fall

CHEM 151	Fund. of Chemistry I	5
IT 101	Engr. Drawing I	3
MATH 263A	Calculus	4
ET 280	Engineering and Tech.— An Overview	4

Winter

CHEM 152	Fund. of Chemistry II	5
	Freshman English requirement	5
IT 121	Descriptive Geometry	3
MATH 263B	Calculus	4

Spring

CE 210	Plane Surveying	4
CHEM 123	Prin. of Chemistry	4
MATH 263C	Calculus	4
PHYS 251	Physics	5

Sophomore Fall

CE 220	Statics	4
ET 181	Computer Methods	4
MATH 263D	Calculus	4
PHYS 252	Physics	5

Winter

MATH 340	Diff. Equations	4
ME 224	Dynamics	4
PHYS 253	Physics	5
	Elective	4–5

Spring

CE 222	Strength of Materials	4
CE 223	Strength of Materials Lab	1
ET 240	Computer Methods in Engineering II	4
INCO 103	Public Speaking	4
	Elective	4–5

Junior Fall

CE 330*	Struct. Theory I	5
CE 340	Fluid Mechanics	5
CE 341	Fluid Mechanics Lab	1
GEOL 283*	Geology	4
	Elective	4

Winter

CE 311*	Route Engr.	4
CE 370*	Geotechnical Engr.	4
CE 371*	Soil Engr. Lab	1
ISE 304*	Statistics	3
ME 321	Thermodynamics	4

Spring

CE 342*	Applied Hydraulics	3
CE 343*	Hydrology	3
CE 361*	Transportation	3
CHE 331	Prin. of Materials	4
ENG 305J	Technical Writing	4

Senior Fall

CE 450*	Water Treatment	3
EE 313	Basic Elec. Engr. I	3
	Electives	

Winter

CE 432*	Concrete Design	4
CE 451*	Wastewater Treatment	3
EE 314	Basic Elec. Engr. II	3
or EE 315	Basic Elec. Engr. III	or 3
	Electives	

Spring

CE 433*	Steel Design	4
	Electives	

*Course offered only during quarter shown.

The above list shows only courses specifically required for a civil engineering degree. An additional 24 credit hours are required in the humanities and social sciences with no fewer than a sequence of 8 credit hours in either field. A list of acceptable electives is available in the civil engineering office.

Also required are one senior capstone design course and an additional three civil engineering electives, which may include additional senior design courses. The senior capstone design course will be selected from CE 491A Land Use, CE 491B Water Resources—Environmental, CE 491C Structures—Soils, and CE 491D Senior Design. Among the three additional electives, you are required to earn at least three credits of design. Design credits are shown in brackets in the following list of CE electives: CE 331 (3) Structural Theory II, CE 353 (3) Env. Engr. Basics [1], CE 410 (3) Appl. Property Surveying, CE 415 (3) Photogrammetry, CE 423 (4) Continuum Mechanics [1], CE 424 (3) Strength of Matls II [1], CE 427 (3) Exp. Stress Analysis, CE 434 (3) Adv. Str. Design [3], CE 437 (3) Timber Des. [3], CE 438 (3) Prestressed Concrete [3], CE 439 (3) Computer-Aided Str. Des. [3], CE 445 (3) Flow Routing [1], CE 452 (3) Water and Wastewater Analysis, CE 453 (3) Solid Haz. Waste Mgt. [2], CE 457 (3) Water Resources Engr. [3], CE 462 (3) Traffic Engr. [2], CE 471 (3) Foundation Engr. [3], CE 474 (3) Soil Mechanics Lab, CE 482 (3) Paving Mtls. and Mixtures [1], CE 483 (3) Prin. of Pavement Des. [3].

Qualified students may, with the permission of the department, substitute certain graduate-level courses for the foregoing civil engineering electives.

You must satisfy university freshman- and junior-level English composition requirements in addition to General Education Requirements (see Graduation Requirements section of this catalog). A minimum of 202 quarter hours of credit is required for the degree.

Computer Science

Bachelor of Science in Computer Science Major code BS7260

The computer science program is administered by the School of Electrical Engineering and Computer Science. The school is the beneficiary of a major endowment from the late Dr. C. Paul Stocker, an electrical engineering alumnus. This endowment provides support for facilities and a level of excellence surpassed by few other electrical engineering and computer science departments in the nation. Its laboratories and offices are located in Stocker Center and Morton Hall. The program offers a Bachelor of Science in Computer Science (B.S.C.S.) through the Russ College of Engineering and Technology. The College of Arts and Science awards B.A. and B.S. degrees in computer science; see the College of Arts and Sciences section for details.

Computer science involves the design, development, analysis, and maintenance of the computer software that controls complex computer systems and networks. Computer scientists work with all aspects of computer software, including graphics, multimedia, the World Wide Web, e-mail, compilers, software engineering, artificial intelligence, theory of computer algorithms, operating systems, database systems, and internet applications.

While writing programs is an important function for computer scientists, they do much more than that. They analyze the needs of software users, develop algorithms and interfaces to meet those needs, and work in small groups to design software components. They must be proficient at problem solving, mathematical reasoning, logical thinking, and interpersonal communication. The computer science program at Ohio University, because of its strong ties with mathematics and engineering, emphasizes both the mathematical and the practical components of computer science.

The computer science program has three major goals for its undergraduate students:

- That they have the knowledge and skills necessary for them to be immediately productive upon entering the workforce or advanced study;
- That they will maintain and develop the knowledge and the skills needed to identify, formulate, and solve problems throughout their career; and
- That they will exhibit personal integrity, ethical behavior, and cultural awareness in the practice of their profession.

Computer science students must fulfill the university's General Education Requirements and the distribution requirement from the College of Arts and Sciences. Students are also required to complete one year of foreign language. Students then have the option of completing four technical courses (option E) or an additional year of foreign language (option L). (See the College of Arts and Sciences for requirement waiver policy for foreign languages taken in high school.) There are 10 courses in mathematics, engineering and basic sciences, which provide a foundation for the 14 required courses in computer science and electrical engineering. These courses culminate with CS 456 where students are required to complete a software project. Students take four technical elective courses in which they can explore areas of computer science at an advanced level. During the course of their program, students work with several programming languages using both personal computers and UNIX workstations.

Computer science majors must complete 192 hours of coursework for an average of 16 hours a quarter over four years of undergraduate study. All required courses in computer science, electrical engineering, and mathematics must be completed with a grade of C or better. Credit earned in approved internship or co-op programs may be applied toward graduation requirements.

Option E (1 year foreign language, 1 year technical courses)

Freshman Fall

MATH 263A	Calculus	4
	Soc. sci. or humanities ⁵	3-5
	Freshman composition ²	5
	Foreign language ³	4

Winter

CS 240A	Intro to Computer Sci. ⁴	5
MATH 263B	Calculus	4
	Soc. sci. or humanities ⁵	3-5
	Foreign language ³	4

Spring

CS 240B	Intro to Computer Sci.	4
MATH 263C	Calculus	4
	Soc. sci. or humanities ⁵	3-5
	Foreign language ³	4

Sophomore Fall

CS 240C	Intro to Computer Sci.	4
MATH 263D	Calculus	4
PHYS 251	General Physics ¹	5
	Additional sci. course ¹	3-5

Winter

CS 300	Intro to Discrete Structures	5
MATH 410	Matrix Theory	4
ET 280	Engr. & Tech. Overview	4
PHYS 252	General Physics ¹	5

Spring

CS 361	Data Structures	5
EE 222	Intro to Digital Circuits	3
MATH 340	Differential Equations ³	4
PHYS 253	General Physics ¹	5

Junior Fall

CS 404	Design & Anal. of Algs.	5
EE 371	Applied Prob. and Stats.	3
EE 313	Basic Elec. Engr. I	3
	Soc. sci. or humanities ⁵	3-5

Winter

CS 320	Org. of Prog. Languages	5
EE 367	Intro to Microprocessors	4
EE 304	Basic Elec. Lab I	1
EE 314	Basic Elec. Engr. II	3
	Junior Composition ²	4

Spring

CS 406	Computation Theory	5
CS 456	Software Design and Dev.	5
EE 303	Intermediate Lab III	1
	Soc. sci. or humanities ⁵	3-5

Senior Fall

CS 442	Op. Sys. and Comp. Arch. I	5
	Technical elective ⁶	5
	Soc. sci. or humanities ⁵	6-10

Winter

	Technical elective ⁶	5
	Tier III ²	4
	Soc. sci. or humanities ⁵	3-5

Spring

	Technical elective ⁶	6-10
	Free elective	1-3

Option L (2 years foreign language)**Freshman Fall**

MATH 263A	Calculus	4
	Science sequence ¹	5
	Freshman composition ²	5
	Foreign language ³	4

Winter

CS 240A	Intro to Computer Sci. ⁴	5
MATH 263B	Calculus	4
	Science sequence ¹	5
	Foreign language ³	4

Spring

CS 240B	Intro to Computer Sci.	4
MATH 263C	Calculus	4
	Science sequence ¹	4-5
	Foreign language ³	4

Sophomore Fall

CS 240C	Intro to Computer Sci.	4
MATH 263D	Calculus	4
	Foreign language ³	4
	Additional sci. course ¹	5

Winter

CS 300	Intro to Discrete Structures	5
MATH 410	Matrix Theory	4
ET 280	Engr. & Tech. Overview	4
	Foreign language ³	4

Spring

CS 361	Data Structures	5
EE 222	Intro to Digital Circuits	3
	Soc. sci. or humanities ⁵	3-5
	Foreign language ³	4

Junior Fall

CS 404	Design & Anal. of Algs.	5
EE 371	Applied Prob. and Stats.	3
	Soc. sci. or humanities ⁵	6-10

Winter

CS 320	Org. of Prog. Languages	5
EE 367	Intro to Microprocessors	4
	Junior Composition ²	4
	Soc. sci. or humanities ⁵	3-5

Spring

CS 406	Computation Theory	5
CS 456	Software Design and Dev.	5
EE 303	Intermediate Lab III	1
	Soc. sci. or humanities ⁵	3-5

Senior Fall

CS 442	Op. Sys. and Comp. Arch. I	5
	Technical elective ⁶	5
	Soc. sci. or humanities ⁵	6-10

Winter

	Technical elective ⁶	5
	Tier III ²	4
	Soc. sci. or humanities ⁵	3-5

Spring

	Technical elective ⁶	5
	Technical elective ⁶	5
	Free elective	1-3

¹ Computer science majors must complete a year-long laboratory science sequence: either PHYS 251, 252, and 253 or CHEM 151, 152, and 123 or 153 *plus* one additional science course. A list of eligible courses is available in the EECS office. PHYS 251 has a prerequisite of MATH 263A, so you may need to wait until winter quarter to start the PHYS sequence.

² The Tier I freshman composition requirement can be satisfied any quarter of the freshman year. The Tier I junior composition requirement can be satisfied in any quarter of the junior year; ENG 305J is preferred. The Tier III requirement can be satisfied in any quarter of the senior year.

³ Computer science majors must take either two years of foreign language, or one year of foreign language and MATH 340, EE 313, EE 314, and EE 304. Two or three years of high school foreign language fulfill one year of the foreign language requirement; four or more years of high school foreign language fulfill two years of the foreign language requirement.

⁴ Students without experience in computer programming are encouraged to take CS 230 Computer Programming I before taking CS 240A.

⁵ Computer science majors have the same requirements as the College of Arts and Sciences (see College of Arts and Sciences "College Requirements" section). The natural science portion of the requirements is fulfilled by required coursework in mathematics and science. Careful selection of courses under this requirement will also fulfill university Tier II requirements.

⁶ Computer science technical electives can be satisfied at any time. Four classes from at least three areas are required: Computational Sciences (MATH 444, 445, 446), Databases (CS 462, 463, 464), Systems (CS 444, 45B), Artificial Intelligence (CS 480, 482, 483), Computer Architecture (CS 411, 412; EE 467), and Algorithms and Data Structures (CS 410; PHIL 320, 420).

Electrical Engineering

The electrical engineering program is administered by the School of Electrical Engineering and Computer Science (EECS). The school is the beneficiary of a major endowment from the late Dr. C. Paul Stocker, an electrical engineering alumnus. This endowment provides support for facilities and a level of excellence surpassed by few other electrical engineering and computer science departments in the nation. The School of Electrical Engineering and Computer Science is located in Stocker Center, a modern facility housing undergraduate, graduate, and research activities. The program offers a Bachelor of Science in Electrical Engineering (B.S.E.E.).

Electrical engineering addresses the wide application of electrical and electronic phenomena to real-world needs, from consumer goods to space exploration. It encompasses such diverse areas as research, development, design, sales, and operation of electrical and electronic systems. Areas of specialization include such varied fields as circuit design, communications, computers and automata, control systems, electromagnetics, energy sources and systems, power electronics, power system planning, electronics, and instrumentation. Students interested in digital computers may choose from courses in the school on programming, digital circuits, computer design, and software engineering.

Electrical engineering graduates hold challenging positions in such nonelectrical industries as chemical, nuclear, automotive, medical, textile, petroleum, and transportation, as well as in electronics, communications, power, control, and other electrical industries. The jobs performed by electrical engineering graduates include such diverse activities as research, development, design, production and manufacturing, and consulting.

The electrical engineering program has three major goals for its undergraduate students:

- That they have the knowledge and skills necessary for them to be immediately productive upon entering the workforce or advanced study;
- That they will maintain and develop the knowledge and the skills needed to identify, formulate, and solve problems throughout their career; and
- That they will exhibit personal integrity, ethical behavior, and cultural awareness in the practice of their profession.

The program offers two curriculum tracks leading to a B.S.E.E. degree. The electrical engineering (EE) track is intended for students who want to work in one of the many areas of electrical engineering or who are undecided as to which area they want to pursue. A computer engineering (CpE) track is available for students who intend to work in the area of computers.

All electrical engineering students must fulfill the university's general education requirements. Students will select six elective courses in conjunction with their advisors. To develop the general knowledge and skills necessary to support the study and practice of engineering, students will take 12 courses in mathematics and the basic sciences. The purpose of the five general engineering courses is to give students an understanding of engineering fundamentals outside of electrical engineering.

The electrical engineering portion of the curriculum consists of seven blocks of courses. The introductory block is intended to promote the students interested in electrical engineering while introducing physical and logical concepts necessary for future studies. The goal of the foundations block is to develop the fundamental knowledge and analytical skills necessary for the study and practice of electrical engineering. The intermediate breadth block prepares the student to study the various areas of electrical engineering and computer engineering at the advanced level. EECS electives allow students to develop specialized knowledge and skills in one of the areas of electrical and computer engineering or explore other topics at the advanced level.

Because the ability to solve problems is critical for engineers, students will develop engineering design skills as they progress through the curriculum. While engineering design is addressed in most EE courses, it is given special emphasis in EE 103, EE 212, EE 332, and CS 456. In the intermediate design block, students will develop experience in experimental design and analysis. The design experience culminates in the senior year with EE 495, where students complete a design project that simulates work found in professional practice.

Ohio University is unique in offering internships in avionics engineering. The Ohio University Avionics Engineering Center, a research and engineering organization that is a unit within EECS, is extraordinary in providing undergraduate electrical engineering majors direct field and laboratory experience on real-world avionics projects sponsored by federal agencies and industry. Internship course credit can be granted for laboratory work performed, and a number of part-time jobs are supported for qualified students. Interns work with the professional faculty and staff on projects involving instrument landing systems, navigation processors, test flight evaluation, and low frequency navigation sensor systems.

Bachelor of Science in Electrical Engineering Major code BS7253 EE Track Major code BS7254 CpE Track

General Studies

	Freshman Composition	5
ENG 305J	Technical Writing	4
	Tier III	4

Math and Basic Science

MATH 263A	Calculus	4
MATH 263B	Calculus	4
MATH 263C	Calculus	4
MATH 263D	Calculus	4
MATH 340	Diff. Equations	4
CHEM 151	Fund. of Chemistry I	5
PHY 251	Gen. Physics	5
PHY 252	Gen. Physics	5
PHY 253	Gen. Physics	5

General Engineering

CE 220	Statics	4
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Electrical Engineering

Introduction

EE 101	Intro to EE	4
EE 102	Intro to CpE	4
EE 103	Intro to EE Design	4

Foundations

EE 210	Circuits I	4
EE 211	Circuits II	4
EE 212	Circuits III	4
EE 221	Instrumentation Lab	2

Intermediate Breadth

EE 321	Electromagnetics I	5
EE 371	Probability and Statistics	3

Select either the EE Track or the CpE Track courses:

EE Track

EE 331	Intermediate EE I	4
EE 332	Intermediate EE II	4

CpE Track

CS 351	Intermediate CpE I	5
CS 404	Intermediate CpE II	5
CS 462	Databases	5

Intermediate Design

EE 395A	Int. ECE Design Exp. I	4
EE 395B	Int. ECE Design Exp. II	4
EE 395C	Int. ECE Design Exp. III	4

Advanced Design

EE 495A	ECE Capstone Design I	4
EE 495B	ECE Capstone Design II	4
EE 495C	ECE Capstone Design III	4

Electives

Students, in conjunction with their advisor, will create a plan of study for additional elective courses. (Minimum of 18 courses and 72 hours.) The plan must contain a significant number of non-technical courses including some breadth (courses in different areas) and some depth (courses in the same area). The plan must include:

- 2 Tier II electives¹
- 1 Advanced Math elective²
- 2 Math/Basic Science electives³
- 2 Engineering electives⁴
- 2 Programming electives⁵
- 3 EECS electives⁶

Remedial courses⁷ may not be included in the plan of study.

Computer Engineering Track students should take CS 240A and 240B for their programming electives, CS 240C and CS 361 for their engineering electives, and CS 300 for their advanced math elective.

¹Courses must be selected so that students take at least 4 hours in two of the three Tier II categories 2S, 2C, and 2H.

²Courses with automatic approval include CS 300, MATH 411, 410, 412, 413A, 440, 441, 444, 446, 460A, 470, and 480A.

³Courses with automatic approval include the approved advanced math courses, BIOS 170, 171, 172, CHEM 152, 123, 153, 301, GEOL 211, GEOL 231, 270, 283, MICR 211, PHIL 320, and PHYS 254.

⁴Courses with automatic approval include CE 222, 340, CS 240C, 361, ME 224, 321, 412, 491, CHE 331.

⁵Course pairs with automatic approval include CS 240A and 240B, CS 210 and 309, and ET 181 and 240.

⁶Courses must be at the 300 or 400 level with at least two at the 400 level.

⁷A remedial course is a course that is at the lower level than a required course. Examples would include MATH 263, PHYS 201, 202, 203, CS 120, 220, 230, ENG 150.

First-Year Program

The following sequence of classes is suggested for your freshman year. Your advisor will help you plan additional coursework to meet all graduation requirements in a timely manner.

Fall

MATH 263A	Calculus	4
CHEM 151	Fund. of Chemistry	5
EE 101	Intro to EE	4
or EE 102	Intro to CpE	4
	Elective	4

Winter

MATH 263B	Calculus	4
	Math/Basic Science Elec.	4-5
EE 102	Intro to CpE	4
or EE 101	Intro to EE	4

Spring

MATH 263C	Calculus	4
	Math/Basic Science Elec.	4-5
EE 103	Intro to EE Design	4
	Freshman Comp.	5

Industrial and Manufacturing Systems Engineering

Bachelor of Science in Industrial and Systems Engineering Major code BS7255

Industrial and manufacturing systems engineers obtain a broad technical background with special attention to productivity, costs, quality, and the human factor in production and other systems. These systems include not only physical systems (such as equipment selection/layout, material handling, etc.), but also information systems (manual and automated information systems, computer networks, data bases, software, etc.) and decision/control systems (master production scheduling, inventory management, quality assurance, performance measurement, etc.). ISE concentration areas include human factors, manufacturing systems design and control, manufacturing information systems, and operations research.

Industrial engineers are responsible for designing, analyzing, rationalizing, optimizing, and controlling these large-scale sociotechnical systems. They also supervise the operation of these systems, taking into account such vital factors as quality, throughput, equipment utilization, costs, ecology, energy conservation, reliability, safety, and health.

Industrial and manufacturing systems engineers also develop performance measures and standards for equipment, workers, and factories to achieve more effective utilization. They apply concurrent engineering principles to design manufacturing systems that fulfill the product realization based on the designs of other engineers.

Consequently, the objectives of the Department of Industrial and Manufacturing Systems Engineering are to train students to design and analyze manufacturing systems and their associated facilities, to analyze the economic consequences of their engineered designs, to make oral and written presentations of their engineered designs, and to perform their work in an ethical and professional manner.

You will develop good systems design skills throughout the curriculum beginning in the freshman year with ET 280 Engineering and Technology: An Overview, and culminating in the senior year with ISE 440, Industrial Plant Design, where you will complete a design project that simulates work found in professional practice. Also in your senior year, you will complete ISE 445, Systems Design, where you will design a real manufacturing information system, inventory control system, materials handling system, or quality control system for one of the many local industries who participate in our program. In the course of the program, you will also perform the design of software (ET 181 and 240), electrical systems (EE 313 and 314), workplace systems (ISE 333), mechanical and structural systems (CE 301), discrete event simulation systems (ISE 433), and manufacturing control systems (ISE 432). You will also perform additional systems design in the electives you choose for your concentration option as described below.

Courses in the first two years of the program are similar to the curricula of other engineering disciplines and provide the necessary foundation in basic subjects upon which advanced engineering work depends. The last two years of work provide the professional-level material, including instruction in computer applications, necessary for the interdisciplinary engineering activities that are required of the modern industrial or manufacturing systems engineer. During the junior and senior years, you will take courses in the ISE concentration areas that are closest to your career goals. If you wish to increase the breadth or depth of your knowledge, the department offers courses leading to the M.S.I.S.E. and participates in the college's integrated Ph.D. degree program.

Industrial and manufacturing systems engineers follow careers in many fields, including manufacturing, transportation, government, banking, insurance, and hospitals. Because of their systems training and experience, many industrial and manufacturing systems engineers move into management positions after a few years on the job. Salaries are excellent and jobs are plentiful. Because of the increasing need for the U.S. to improve productivity to meet international competition, the need for industrial and manufacturing systems engineers in manufacturing and other organizations will remain high.

For more information, see the department's Web site:
<http://www.ent.ohiou.edu/ise>

Freshman Fall

MATH 263A	Calculus	4
ENG 151	Freshman Composition	5
ET 280	Intro to Engineering	4
CHEM 121 or CHEM 151	Prin. of Chemistry I Fund. of Chemistry I	4 or 5

Winter

MATH 263B	Calculus	4
IT 110	Manufacturing Processes	4
ECON 103	Prin. Microeconomics	4
CHEM 122 or CHEM 152	Prin. of Chemistry II Fund. of Chemistry II	4 or 5

Spring

IT 101	Engineering Drawing I	3
MATH 263C	Calculus	4
INCO 103	Fund. of Public Speaking	4
	Electives*	

Sophomore Fall

PHYS 251	General Physics	5
MATH 263D	Calculus	4
ISE 231	Intro to Indust. and Sys. Engineering	2
ACCT 101	Financial Accounting	4
	Electives*	

Winter

PHYS 252	General Physics	5
ISE 305	Engineering Statistics I	3
ISE 330	Engr. Economy	3
	Electives*	

Spring

MATH 340	Differential Equations	4
ET 181	Computer Methods in Engineering I	4
ISE 306	Engineering Statistics II	4
PHYS 253	General Physics	5

Junior Fall

CHE 331	Prin. of Engr. Materials	4
ET 240	Computer Methods in Engineering II	4
ISE 333	Work Design	5
EE 313	Basic Elec. Engr. I	3

Winter

EE 314 or EE 315 (spring)	Basic Elec. Engr. II Basic Elec. Engr. III	3
ISE 433	Indust. Comp. Simulation	4
MATH 211	Elem. Linear Algebra	4
CE 301	Applied Mechanics	5
	Electives*	

Spring

ENG 305J	Technical Writing	4
EE 315	Basic Elect Engr. III (if 314 was not taken winter quarter)	3
ME 321	Intro to Thermodynamics	4
ISE 441	Operations Research	4
	Electives*	

Senior Fall

ISE 432	Manufacturing Control	3
	Electives*	

Winter

ISE 440A	Indust. Plant Design I	3
ISE 445A	Systems Design I	3
ET 400	PE Fundamentals Review	2
	Electives *	

Spring

ISE 440B	Indust. Plant Design II	3
ISE 445B	Systems Design II	3
	Electives*	

*A minimum of 52 hours of electives is required, including:

16 hours in industrial and manufacturing systems engineering. You must take 3 courses in one of the following concentration areas:

Operations Research—415, 417, 436, 442, 444
 Manufacturing Systems—402, 403, 409, 442, 446
 Mfg. Information Systems—426, 427, 428, 439
 Human Factors—422, 448, 449; 407 as quality elective

3 hours of quality elective: either 407 or 435.

20 hours in social sciences and humanities. Sequences are required in each area including advanced courses in each area. An advanced course is defined as one which (1) is at the 300 or higher level (except for courses dual-listed with 100- or 200-level courses); or (2) has a specified prerequisite. (See college requirements section.)

4 hours of approved mathematics or science electives selected from MATH 306, 307, 314, 330A, 343, 360, 410, 411, 441, 442, 443, 444, 450A, 470; CHEM 123, 153, 345; PHYS 254, 272, 273, 311, 351, 411, 423, 427; BIO5 170, 225; GEOL 270, 283.

4 hours from Tier III courses.

5 hours of electives to be freely chosen.

Industrial Technology**Bachelor of Science in Industrial Technology**
Major code BS7256

Industrial technology is the study of materials, production processes, and management procedures used in manufacturing. This degree program prepares you for a technical/management position in the manufacturing industry. Typically, an industrial technology graduate is responsible for management and supervision of industrial materials, machines, and personnel in areas of production, process planning, maintenance, and quality assurance.

The industrial technology program prepares you to be a technical generalist: one who knows about a wide range of technical subjects. In addition, since most industrial technology courses are hands-on lab courses, you graduate with practical experience. The degree includes a minor in business.

There are four components to the curriculum. Each component contributes a valuable part to your overall preparation for employment. A minimum of 196 quarter hours is required for graduation, including the following specific requirements.

General Education: 71

ENG 151	Freshman Composition	5
ENG 305J	Technical Writing	4
INCO 103	Public Speaking	4
Tier III requirement		4

Math and Computer Programming

IT 303	Apps. of Obj.-Oriented Programming	3
MATH 163A	Intro to Calculus	4
MATH 250, 251	Intro to Prob.	8

Physical Science

CHEM 121, 122	Prin. of Chemistry	8
PHYS 201, 202	Intro to Physics	10

Humanities and Social Sciences

ECON 103	Prin. Microeconomics	4
PSY 101	General Psychology	5
Tier II	Humanities & Fine Arts or Cross-Cultural Perspectives	4

Two electives (selected from the Russ College of Engineering and Technology Humanities and Social Sciences list) 8

Business/Management: 32

ACCT 101	Financial Acct.	4
ACCT 102	Managerial Accounting	4
BU5L 255	Law and Society	4
HRM 420	Human Resource Mgt.	4
MGT 202	Management	4
MIS 202	Bus. Information Systems	4
MKT 202	Marketing Principles	4
OPN 310	Prin. of Operations	4

Industrial Technology: 79

IT 100	Intro to Industrial Tech.	1
IT 101	Engr. Drawing I	3
IT 102	Engr. Drawing II	3
IT 103	Computer Applications	3
IT 110	Intro Manufacturing Proc.	4
IT 117	Basic Metal Machining	4
IT 150	Wood Technology	3
IT 208	Industrial Plastics	4
IT 217	Prod. Metal Machining	4
IT 218	Metal Fabricating and Casting	4
IT 221	Power Transmission	3
IT 232	Electronics I	3
IT 320	Hydraulic Controls	3
IT 333	Electronics II	3
IT 351	Production Tooling	3
IT 363	Quality Assurance	3
IT 390	Industrial Materials	3
IT 400	Senior Seminar	1
IT 435	Digital Instr. and Controls	3
IT 452	Computer Integrated Mfg.	4
IT 462	Prod. Manufacturing	5
	IT electives	min. 12

Electives: 14

First-Year Program

The following classes are suggested for your freshman year. Your advisor will help you plan additional coursework to meet all graduation requirements in a timely manner.

Fall

IT 100	Intro to Industrial Technology	1
IT 101	Engr. Drawing I	3
IT 103	Computer App. in Industrial Technology	3
IT 110	Intro to Manufacturing Processes	4
PHYS 201	Intro to Physics	5

Winter

IT 102	Engr. Drawing II	3
IT 117	Basic Metal Machining	4
MATH 163A	Intro to Calculus	4
PHYS 202	Intro to Physics	5

Spring

IT 150	Wood Technology	3
IT 208	Industrial Plastics	4
INCO 103	Public Speaking	4
	English composition	5

Associate's Degree Transfer Students

If you have completed a two-year associate's degree from an accredited college or university in a related technical area, you may enter the Industrial Technology program with junior standing. An assessment of previous coursework will determine the remaining requirements for the bachelor's degree.

Mechanical Engineering

Bachelor of Science in Mechanical Engineering Major code B57257

The primary objective of the Department of Mechanical Engineering is to educate talented men and women who have a genuine interest and aptitude for mathematics and the physical sciences to become productive members of the mechanical engineering profession. A further goal is to produce professionals who can increase their own skills by continuing their education both formally and informally.

Mechanical engineering is an extremely diverse profession which is concerned with (1) the economical and ecological conversion of energy from natural sources to provide power, heating, cooling, and propulsion; (2) the design of all types of machines, engines, and vehicles; (3) the processing of materials into useful production; and (4) the development of systems for using machines and resources. Professional areas include research, development, design, testing, production, operation and maintenance, marketing and sales, and administration.

The mechanical engineering curriculum is designed to provide a solid foundation in higher mathematics, physics, and chemistry followed by extensive instruction in all of the classical mechanical engineering disciplines. The curriculum contains a significant amount of design content wherein students are required to apply their engineering skills to solve real-world and/or open-ended problems in a project format. The principal objectives of the design experience are 1) to allow students to use their own creativity in formulating alternative engineering solutions; 2) to develop an ability to work independently and/or in teams which is an important skill for continued growth as a practicing engineer; 3) to bridge the gap between the acquisition of engineering knowledge in required courses and the application of that knowledge to solve engineering problems. The objectives of the design experience are consistent with the department's overall objective of producing highly competent engineers with an ability to formulate and solve real engineering problems.

The design experience begins in freshman year (ME 100) wherein students are introduced to elements of engineering design. This often involves the design and construction of a device to perform a specified task. Throughout the sophomore, junior, and senior years, mechanical engineering students are required to solve design problems in many of the required engineering courses and across the spectrum of disciplines encompassed by the mechanical engineering profession. Senior mechanical engineering students are challenged in a sequence of three formal design courses (ME 470, 471, 472) involving a capstone senior design project which begins in ME 470 and culminates in ME 472. The capstone project will call upon engineering knowledge in the thermal/fluid sciences, structures and motion analysis, and an understanding of engineering materials. Other elements of design experience will include engineering economy and social issues such as product safety and reliability. Students are required to submit written technical reports as well as give oral presentations describing project results. This is in accord with the department's objective of producing engineers who have good communication skills as well as excellent technical skills. The design experience is enhanced by providing students with technologically modern lab facilities and computational tools.

In addition to engineering courses, the department requires significant studies in the humanities and social sciences to establish a breadth and depth of awareness and education. Advanced courses in both the humanities and social sciences are required. The humanity and social science requirements are consistent with the department's objective of graduating individuals with a well-rounded education.

The Department of Mechanical Engineering prides itself on offering students a close working relationship with the faculty. Mechanical engineering faculty are required to set aside office hours to assist students with class assignments. In addition, each student who enters the program is assigned one of the mechanical engineering faculty members as an academic advisor who will meet quarterly with the student to assist in course scheduling.

If you are majoring in mechanical engineering as preparation for entry into another profession such as law, medicine, business, etc., consult with the department chair regarding modifying your schedule to meet specific career objectives.

The Department of Mechanical Engineering offers a co-op program that allows you to acquire practical experience and income by working in industry after completing your freshman year. Sophomore and junior courses are scheduled to accommodate a work-academics plan based on alternate periods of study and work. Consult the co-op office if you are interested.

An honors program for students with a 3.35 g.p.a. provides the opportunity to receive graduate credit for coursework throughout your senior year. Contact the department office for further information.

The Paul H. and Irene C. Black Memorial Fund provides a large number of generous scholarships for seniors majoring in mechanical engineering. A good academic record, a history of work to cover the cost of education, and participation in departmental activities are key considerations in awarding the scholarship. Contact the department office for additional information.

Freshman Fall

IT 101	Engineering Drawing I	3
MATH 263A	Calculus	4
	English composition ¹	5
	Soc. Sci. and Hum. ²	

Winter

ET 181	Computer Meth. in Engr. I	4
INCO 103	Public Speaking	4
MATH 263B	Calculus	4
PHYS 251	Gen. Phys.	5
	Soc. Sci. and Hum. ²	

Spring

ET 280	Engr. and Tech.— An Overview	4
or ME 100	Intro to Mech. Engr.	
MATH 263C	Calculus	4
PHYS 252	Gen. Phys.	5
	Soc. Sci. and Hum. ²	

Sophomore Fall

CE 220	Statics	4
CHEM 151	Fund. of Chemistry I	5
MATH 263D	Calculus	4
PHYS 253	Gen. Phys.	5

Winter

CHEM 152	Fund. of Chemistry II	5
IT 117	Basic Metal Machining	3
MATH 340	Diff. Equations	4
ME 224	Dynamics	4

Spring

CE 222	Strength of Materials	4
CE 223	Strength of Materials Lab	1
CHEM 123	Prin. of Chemistry III	4
ENG 305J	Technical Writing ³	4
	Soc. Sci. and Hum. ²	

Junior Fall

CE 340	Fluid Mechanics	5
CHE 331	Prin. of Engr. Materials	4
ME 321	Intro to Thermodynamics	4
ME 350	Intro to CAD	3
ME 398	Junior Laboratory ⁴	3

Winter

ET 240	Computer Meth. in Engr. II	4
ME 301	Kinematics and Dynamics of Machines	4
ME 313	Metal Processing	3
	Technical Electives ⁵	

Spring

CHE 418	Chem. Engineering Lab— Materials	2
ME 328	Applied Thermodynamics	4
ME 403	Machine Design I	4
ME 412	Heat Transfer	4

Senior Fall

EE 304	Basic EE I Lab	1
EE 313	Basic EE I (Circuits)	3
ME 470	ME Design I ⁷	3
ME 491	Mechanical Vibrations I	4
ME 498	Senior Lab ⁶	3

Winter

EE 314	Basic EE II (Electronics)	3
ME 450	Computer-aided Design	3
ME 471	ME Design II	3
-	Tier III requirement	4

Spring

EE 305	Basic EE II Lab	1
EE 315	Basic EE III (Power)	3
ME 401	Systems Analysis and Controls	4
ME 472	ME Design III	3
	Technical electives ⁵	

¹ You must meet university freshman and junior English standards.

² Twenty-four hours of humanities and social sciences with a minimum of eight hours in each area are required. Course sequences should be selected to build depth in two areas of concentration. See the College of Engineering and Technology section for more details and course selection.

³ Assuming you have 90 or more credits.

⁴ Schedule this laboratory during one quarter of the junior year.

⁵ Ten quarter credits of technical electives are required, to be selected in consultation with your advisor.

⁶ Schedule this laboratory during one quarter of the senior year.

College of Fine Arts

Jennings House

Raymond Tymas-Jones
Dean

Jessica Haigney
Associate Dean

Norma Humphreys
Assistant Dean

The College of Fine Arts includes the Schools of Art, Comparative Arts, Dance, Film, Music, and Theater. The college offers a broad cultural education in the fine arts, as well as specialized training in a wide range of career fields.

Schools and Programs

The School of Art, located in Seigfred Hall, offers degree programs in art education, art history, ceramics, graphic design, painting, photography, printmaking, and sculpture.

The School of Comparative Arts, located in Lindley Hall, does not offer an undergraduate degree program. You may, however, earn a minor in comparative arts, and many undergraduate comparative arts courses are available, some of which may be used to fulfill specific degree requirements.

The School of Dance, located in Putnam Hall, offers a single preprofessional degree program in dance.

The School of Film, located in Lindley Hall, does not offer an undergraduate degree program. You may, however, earn a minor in film, and many undergraduate film courses are available, some of which may be used to fulfill specific degree requirements. A limited number of exceptional students may be approved to pursue work in film through the Honors Tutorial College.

The School of Music, located in the Music Building, offers degree programs in music composition, music history and literature, music education, music theory, music therapy, orchestral instruments, organ, piano, and voice.

The School of Theater, located in Kantner Hall, offers degree programs in production design and technology, theater arts and drama, and theater performance (acting).

Double Majors

If you wish to pursue a second major outside the College of Fine Arts, apply for admission to the college offering the second major. See "A Second Bachelor's Degree" in the Graduation Requirements section of this catalog for specific requirements.

You may wish to pursue simultaneously two majors within the College of Fine Arts, earning a dual major degree. You must be admitted to, and complete all requirements for, each of the majors.

Minors

Minors are available in art, comparative arts, dance, film, music, and theater. The minors are designed for students majoring in other fields who wish, in the course of their formal education, to pursue study in the arts. Specific requirements for each minor can be found in this section following the requirements for majors in each school.

If you wish to declare a minor in the College of Fine Arts, consult with both your major advisor and an advisor within the minor program. You must receive approval from the College of Fine Arts dean's office to pursue the program. You must maintain a 2.0 g.p.a. in the minor.

If you are a major in the College of Fine Arts and wish to pursue a minor offered by another school or department within the university, consult that school or department's section of the catalog.

Admission Requirements

High school applicants to Ohio University who wish to pursue a degree program in the College of Fine Arts may apply for direct entry into the college. You may enter the School of Art as a general art major or the School of Theater as a general theater major. Entry into a degree program in the School of Art or Theater requires the successful completion of an audition or portfolio review, which usually occurs during the sophomore year. You are required to audition if you desire direct entry into programs in the School of Dance or the School of Music. For final acceptance into a major program, you must meet all entrance requirements described under that major.

To transfer from another college or university, you are required to audition, submit a portfolio, or meet the requirements specified by each program in the College of Fine Arts in addition to gaining admission to Ohio University. Write for detailed information to the director of the particular program in which you are interested.

Ohio University students requesting transfer to major programs of the college also are required to meet the above criteria and should consult the appropriate director before applying for transfer.

Scholarships and Awards

A limited number of scholarships and awards of varying amounts are available to majors in the College of Fine Arts. Some awards are renewable; others are granted on a one-time basis, renewable at the discretion of the school involved. Awards are based primarily on talent demonstrated through audition, interview, and/or portfolio submission. In each case, academic performance is considered important. Contact the director of the appropriate school before January 1 to arrange an audition or portfolio submission.

Advising

The College of Fine Arts maintains a system of academic advising for its majors, with assigned members of the faculty serving as advisors. Maintain ongoing contact with your advisor for assistance with concerns related to academic and career planning. Your advisor will assist you with an appropriate selection of courses each quarter as you prepare your schedule. It is especially important that you work closely with your advisor to maintain the proper sequence of courses in your major. Deviations from the normal course requirements, including waivers, must be approved in writing by your advisor. In some cases additional approval by a faculty committee is required.

Although your advisor will be helpful in assisting you with the preparation of your schedule, **it is your responsibility to make certain that all graduation requirements are met.**

Degrees and Requirements

The Bachelor of Fine Arts (B.F.A.) degree is granted upon completion of programs in the School of Art, the School of Dance, and the School of Theater. The School of Music grants the Bachelor of Music (B. Mus.) degree.

All programs of study within the College of Fine Arts are intended to provide students with a strong foundation in the arts and culture, as well as an opportunity for specialized professional training. Every effort is made through careful individual advising and a flexible curriculum to meet the individual needs of each student.

If your qualifications are outstanding, certain courses can be waived from the proposed program of study. You may request of your advisor a review of qualifications for course waiver. In some cases, additional approval by a faculty committee is required.

Candidates for degree programs in the College of Fine Arts must complete a minimum of 192 quarter hours with an accumulative grade-point average (g.p.a.) of at least 2.0 (C). The minimum number of quarter hours and accumulative g.p.a. for some degree programs is higher.

School of Art

Power Boothe, Director

The School of Art is dedicated to preparing you as an artist, scholar, or educator to enter a complex and diverse world, with the knowledge that your work is meaningful in your profession as well as in your life. It offers a four-year program leading to a Bachelor of Fine Arts (B.F.A.) degree with eight majors: art education, art history, ceramics, graphic design, painting, photography, printmaking, and sculpture. Courses are taught by a dedicated and acclaimed faculty who are active in their fields. The School of Art has an extensive visiting-artist program that regularly brings to the campus internationally known artists and scholars. The Ohio University and the Trisolini galleries provide an opportunity to see a variety of visual art, from solo exhibitions of notable contemporary artists, to faculty exhibitions and student thesis exhibitions.

The School of Art is located in a complex of buildings that provide a variety of teaching and learning resources. This complex includes an extensive range of ceramic kilns; a sculpture building, including metal working equipment, a modern foundry, and a comprehensive wood shop; painting studios; printmaking facilities with photo silk screen, lithography and etchings presses, typesetting equipment and computers able to produce large-scale prints; well-equipped computer labs for graphic design; extensive darkrooms, photography studios and computers for digital imagery. All students have e-mail access and entry to the major collections in the Fine Arts Library located at Ohio University's Alden Library, which serves as a federal research repository, strong in Renaissance, 19th century, Oceanic, modern and contemporary art as well as the history of photography. On-campus study collections include the Kennedy Collection of Native American Art, the Kennedy Collection of African Art, the Trisolini Contemporary Print Collection, as well as exhibitions curated at the Kennedy Museum of Art. The slide library, housed in the School of Art, contains over 200,000 images.

The Foundations program is the first step of your experience in the School of Art. The program takes place during the freshman and sophomore years and is intended to give students a wide range of experience. It serves as an introduction to studio practice, the history of art, as well as to aspects of critical thinking. It is understood that in the Foundations program, as it is in the School of Art as a whole, that taking risks is an essential part of the process of creating work that has deeply felt significance. The School of Art faculty is dedicated to providing a supportive environment that encourages passionate investigation, experimentation and accomplishment.

As you explore various art disciplines in the Foundations program, you will gain the experience needed to prepare for entry into a major. Each area has a review requirement. The studio areas conduct portfolio reviews during the spring quarter. Some majors have additional reviews during the fall and/or winter quarters. Once accepted into an area, you will follow its curriculum to

complete your B.F.A. degree. Mastering the skills of your chosen discipline is only part of the process of preparing for your future. The primary goal of the School of Art is to develop students who are strong artists, scholars or educators, but also to develop leadership qualities. Your experience here will challenge your assumptions, stimulate flexibility of mind and expand your abilities, resulting in work that exhibits authority and depth.

The School of Art makes advising an integral part of the educational experience. You are encouraged to consult regularly with your advisor concerning your selection of courses and progress toward fulfilling your degree requirements. Other advising resources you may also wish to consult are the assistant director of Student Services, the chair of the Foundations Program, or the area chair in your major. Recognition of student work is made through annual scholarships and prizes, including the Provost's and Dean's Scholarships, the Edna Way Memorial Scholarship, the Kenneth B. Clifford Memorial Scholarship, the Rose Marie Darst Memorial Scholarship, the I.C. Mitchell Memorial Scholarship, the Undergraduate Photography Fellowship, and the Francis M. Paulson Family Memorial Scholarship.

There are three organizations in the School of Art. The Undergraduate Art League (UAL) sponsors visiting artists, organizes annual juried exhibitions, and coordinates trips to major museums. The Students in Design (SID) is a student chapter of the American Center for Design (ACD). SID members sponsor design-related events, assist sophomores in portfolio preparation, and attend the annual ACD conference. The National Art Education Association (NAEA) serves as a networking and support organization for art education majors.

The School of Art is within the College of Fine Arts, which includes the Schools of Music, Theater, Dance, Film, and Comparative Arts. An interdisciplinary atmosphere is part of the culture in the School of Art. Consequently, students from many disciplines come together to see exhibitions, go to events, see performances, and discuss their own work. The cross-fertilization of all the arts is encouraged as well as taking courses across the university curriculum in the liberal arts tradition. We believe the arts are by nature affected by all aspects of the world and all disciplines of knowledge, and conversely, as you explore, invent and make discoveries, your work will affect the world in return.

Admission Requirements

If you are planning to become an art major, enter the School of Art as a general art major (major code NDS153). You need to meet the general university requirements in order to be accepted. A portfolio is required only if you are interested in applying for a scholarship or are a transfer student.

Transfer Requirements

All transfer students must submit a portfolio to receive credit for their previous studio course work. Portfolios will be evaluated on a regular basis. For fall and summer quarter entry, the review date is May 1; for winter quarter entry, the review date is Oct. 1; and for spring quarter entry, the review date is Feb. 1. Send a general portfolio of original work (flat pieces only; all 3-D work must be in slide form) or slides, a copy of your transcript, and self-addressed return packaging to: School of Art, Transfer Portfolio Review, 528 Seigfried Hall, Ohio University, Athens, OH 45701.

Major Areas and Requirements

Before you can graduate, you must satisfy the degree requirements of Ohio University, the College of Fine Arts, and the School of Art.

The following courses, available on regional campuses only, may not be used to fulfill specific degree requirements in the School of Art, including studio electives: ART 115A, 125, 141, and 151. School of Art majors may use these courses as free electives only.

Art Education Major

Major code BF5122

Teaching art provides excellent employment opportunities for artists and others with a serious interest in the visual arts. The Art Education program in the School of Art connects art making and study to preparation for a professional career. The program is designed to maximize possibilities for students to double major in a Studio Art discipline or Art History and Art Education with minimal additional coursework.

The focus of the program is dedicated to discovering and making meaning through one's own personal art work or study, and learning how to develop meaningful and innovative art experiences for others. The Art Education lab/classroom is well equipped with a variety of art supplies, instructional resources such as texts, slides and reproductions, and computer technology.

The B.F.A. program in Art Education (outlined below) meets all state of Ohio requirements for the MultiAge (pre-kindergarten through 12th grade) Provisional Teaching License. Thirty-four states reciprocally grant some form of licensure or certification to those who obtain the State of Ohio Provisional License.

General Academics:

Freshman Year

	Tier I English Comp	4
	Tier I Quantitative Skills (MATH 109 and above)	4
PSY 101	General Psychology (fulfills Tier II Social Science)	5
INCO 103	Fund. of Public Speaking	4

Sophomore Year

AH 21, 212, 213	Art History	12
	Tier II Social Science	4
	Tier II Elective	4
EDCI 200	Learning, Growth, and Development	6
EDCI 201	Characteristics of Learners with Exceptionalities	3
EDCI 202	Field Exp. in Education	2

Freshman and Sophomore Art Courses Studio Foundations

Quarters 1 and 2

ART 110	Seeing and Knowing Visual Arts (1st qtr preferred)	4
ART 112	Foundations Photography	4
ART 113	Three-Dimensional Studies	4
ART 116	Drawing I	4
ART 117	Drawing II	4

Quarters 3 through 6

ART 118	Drawing III	4
ART 211	Foundations Concepts	4
ART 212	Color	4
ART 251 or ART 254	Typography Letter Form	5
	Two studio courses	10
ART 260	Foundations of Art Ed	4

Admission to Major: ART 260 is taught spring quarter only. Students must have a minimum g.p.a. of 2.75 and earn at least a B minus in this course, and complete the Foundations Program (ART 110, 112, 113, 116, 117, 118, 211, 212) for admission to the Art Education degree program.

Junior Year

	Art History Elective (300/400 level)	4
	Tier II Science	4-5
	Tier II Elective	4-5
	Two Studio Courses	10
EDCI 203	Techno. Applications in Ed	4
EDCI 301	Ed and Cultural Diversity	3
EDCI 371A	Instructional Adaptations for Learners with Exceptional and Diverse Needs	3
EDCI 400	School, Society, and the Professional Educator	4
EDCI 420	Teaching Reading in the Content Area	5
EDMC 300	Middle Childhood Education and Curriculum	4
	Tier I English Comp (300 Level)	4

Senior

	Art History Elective (300/400 Level)	4
ART 461*	Teachg Art in Elem Sch	6
ART 462*	Teachg Art in Sec Sch	4
	Three Studio Courses	15
	Tier III	4
EDPL 461, 463, 465	Student Teaching	16

Total minimum hours required: 196

Studio Art courses are taught in the disciplines of ceramics, painting, photography, printmaking, drawing and sculpture.

Students are required to take at least four consecutive courses at the 200 level and above in one studio arts discipline, and at least three consecutive courses at the 200 level and above in a second studio arts discipline for a combined total of 35 hours.

Students who are double-majoring in a studio art may substitute the studio art courses required for that degree program to fulfill this requirement.

Professional Education: Students must take the EDCI 200, 201, 202 block of courses simultaneously. Students must apply to the Professional Education Program in the College of Education before taking any education courses. A minimum g.p.a. of 2.75 is required for admission to the Professional Education component. See College of Education in this catalog for specifics about other requirements.

*ART 461 and 462 are taught fall and winter quarters only.

Art History Major

Major code BF5123

In the art history program, students learn how to articulate and express their ideas about art and develop research and writing skills as tools for communicating about art. Art history majors research art in depth and may pursue graduate art history studies. Many students complete internships at galleries and museums throughout the country. To reflect the breadth and variety of art, the art history program offers a diverse, comprehensive curriculum in the history of world art. Students from across the university have opportunities to participate in summer Study Abroad programs in Italy, England, and elsewhere and to view art monuments in their unique historical and cultural contexts.

The B.F.A. in art history provides a strong foundation in art history and studio art, advanced courses in art history, and liberal arts electives. Art history majors enter graduate study, seek employment in museums, or work in related fields. Students are expected to arrange programs of study with assigned faculty advisors. Selection of elective courses, in particular, should be made only after consultation with an advisor. To apply to become an art history major, you must (1) complete and achieve a minimum 3.0 g.p.a. in two courses from the art history survey sequence; (2) have an overall academic g.p.a. of at least 2.75; (3) submit a copy of your DARS form for review and two samples of your own academic writing (one of which must be a sample from an art history course) to the art history chair; and (4) be prepared to discuss why you wish to declare art history as your major. To graduate as an art history major, you must have completed at least one year of a foreign language.

General Academics

Freshman Year

Tier I English Composition	4
Tier I Quantitative Skills	4
Two Tier II Electives	8
General Electives	12

Sophomore Year

AH 211, 212, 213	Art History	12
	Two Tier II electives	8
	Foreign Language	12
	General Electives	12

Freshman and Sophomore Art Courses Studio Foundations

Quarters 1 and 2

ART 110	Seeing and Knowing Visual Arts (1st quarter preferred)	4
ART 112	Foundations Photography	4
ART 113	Three-Dimensional Studies	4
ART 116	Drawing I	4

Quarters 3 through 6

Select two of the following four studios:

ART 117	Drawing II	4
ART 118	Drawing III	4
ART 211	Foundations Concepts	4
ART 212	Color	4

Junior Year

Art History Courses (300/400 level)	16
One Studio Course	5
Tier I English Comp (300 Level)	4
Tier II Elective	5
General Electives	18

Senior Year

Four Art History Electives (300/400 Level)	16
One Studio Course	5
Tier II	5
Tier III	4
General Electives	18

Total minimum hours required: 192

Studio Majors

The B.F.A. degree program with a major in one studio area provides extensive study in a single discipline. Studio majors find success as professional artists or graphic designers, enter graduate schools, or work in related art and design fields.

To become a major in ceramics, graphic design, painting, photography, printmaking, or sculpture, you must submit a portfolio of studio work for review at the end of the sophomore year. A student can present portfolios to more than one area. Some majors have portfolio reviews only in the spring, and some have them each quarter. Consult area faculty for specific dates and criteria for the reviews.

Ceramics Major—Major code BF5127

General Academics

Freshman Year

Tier I English Composition	4
Tier I Quantitative Skills	4
Two Tier II Electives	8

Sophomore Year

AH 211, 212, 213	Art History	12
	Two Tier II Electives	8
	General Electives	4

Freshman and Sophomore Art Courses Studio Foundations:

Quarters 1 and 2:

ART 110	Seeing and Knowing the Visual Arts (1st quarter preferred)	4
ART 112	Foundations Photog.	4
ART 113	Three-Dimens. Studies	4
ART 116	Drawing I	4
ART 117	Drawing II	4

Quarters 3 through 6

ART 118	Drawing III	4
ART 211	Foundations Concepts	4
ART 212	Color	4
	Three 200-Level Studio Courses (outside of major)	15
ART 221	Intro to Ceramics I	5
ART 222	Intro to Ceramics II	5

Portfolio Review for Admission to Major: Students submit portfolios for review after completion of the Foundations Program (ART 110, 112, 113, 116, 117, 118, 211, 212) and five 200-level studio courses (at least two of these courses must be from your intended major area).

Junior Year

	Art History Elective (300/400 Level)	4
ART 223	Introduction to Ceramics III	5
ART 321A	Intermediate Ceramics I	5
ART 322A	Intermediate Ceramics II	5
	Two Studio Courses (outside of major)	10
	Tier I English Comp. (300 Level)	4
	Tier II Electives	5
	General Electives	9

Senior Year

	Art History Elective (300/400 Level)	4
ART 323A	Introduction to Ceramics III	5
ART 421A	Intermediate Ceramics I	5
ART 422A	Intermediate Ceramics II (take twice)	10
	Two Studio Courses (outside of major)	10
ART 496A	Studio Practicum	3
ART 496B	Studio Project	4
	Tier II	5
	Tier III	4
	General Electives	4

Total minimum hours required: 192**Graphic Design—Major code BF6321
General Academics****Freshman Year**

	Tier I English Composition	4
	Tier I Quantitative Skills	4
	Two Tier II Electives	8

Sophomore Year

AH 211, 212, 213	Art History	12
	Two Tier II Electives	8
	General Electives	4

**Freshman and Sophomore Art Courses
Studio Foundations:****Quarters 1 and 2:**

ART 110	Seeing and Knowing the Visual Arts (1st quarter preferred)	4
ART 112	Foundations Photog.	4
ART 113	Three-Dimens. Studies	4
ART 116	Drawing I	4
ART 117	Drawing II	4

Quarters 3 through 6

ART 118	Drawing III	4
ART 211	Foundation Concepts	4
ART 212	Color	4
	Three 200-Level Studio Courses (outside of major)	15
ART 250*	Graphic Design Prin.	5
Choose at least one from the following:		
ART 251*	Typography	5
ART 254A*	Letter Form	5
ART 255*	Form and Content in Graphic Design	5

*It is preferred that students take ART 250 before the other graphic design courses.

Portfolio Review for Admission to Major: Students submit portfolios for review after completion of the Foundations Program (ART 110, 112, 113, 116, 117, 118, 211, 212) and five 200-level studio courses (at least two of these courses must be from your intended major area).

Junior Year

	Art History Elective (300/400 Level)	4
ART 351	Graphic Design: Jr Studio	5
ART 352	Graphic Design: Jr Studio	5
ART 353	Graphic Design: Jr Studio	5
	Two Studio Courses (outside of major)	10
VICO 314	Desktop Publishing	5
	Tier I English Comp (300 Level)	4
	Tier II Electives	5
	General Electives	4

Senior Year

	Art History Elective (300/400 Level)	4
ART 451	Graphic Design: Sr. Studio	5
ART 452	Graphic Design: Sr. Studio	5
ART 453	Graphic Design: Sr. Studio	5
	Two Studio Courses* (outside of major)	10
ART 496A	Studio Practicum	3
ART 496B	Studio Project	3
	Tier II	5
	Tier III	4
	General Electives	4

Total minimum hours required: 192

*Graphic design students may elect to use one of the following as one of their studio courses: ART 392D Letterpress, 393D Text and Image in Graphic Design, or 395D Media.

**Painting—Major code BF5124
General Academics****Freshman Year**

	Tier I English Composition	4
	Tier I Quantitative Skills	4
	Two Tier II Electives	8

Sophomore Year

AH 211, 212, 213	Art History	12
	Two Tier II Electives	8
	General Electives	4

**Freshman and Sophomore Art Courses
Studio Foundations:****Quarters 1 and 2:**

ART 110	Seeing and Knowing the Visual Arts (1st quarter preferred)	4
ART 112	Foundations Photog.	4
ART 113	Three-Dimens. Studies	4
ART 116	Drawing I	4
ART 117	Drawing II	4

Quarters 3 through 6

ART 118	Drawing III	4
ART 211	Foundations Concepts	4
ART 212*	Color	4
	Three 200-Level Studio Courses (outside of major)	15
ART 275A*	Basic Painting I	5
ART 276A*	Basic Painting II	5

*It is preferred that students take ART 212 before Painting I and II.

Portfolio Review for Admission to Major: Students submit portfolios for review after completion of the Foundations Program (ART 110, 112, 113, 116, 117, 118, 211, 212) and five 200-level studio courses (at least two of these courses must be from your intended major area).

Junior Year

	Art History Elective (300/400 Level)	4
ART 375A	Intermediate Painting I	5
ART 376A	Intermediate Painting II	5
ART 377A	Intermediate Painting III	5
	Two Studio Courses (outside of major)	10
	Tier I English Comp (300 Level)	4
	Tier II Electives	5
	General Electives	9

Senior Year

	Art History Elective (300/400 Level)	4
ART 475A	Advanced Painting I	5
ART 476A	Advanced Painting II	5
ART 477A	Advanced Painting III	5
	Two Studio Courses (outside of major)	10
ART 496A	Studio Practicum	3
ART 496B	Studio Project	3
	Tier II	5
	Tier III	4
	General Electives	4

Total minimum hours required: 192

Photography—Major code BF5143**General Academics****Freshman Year**

	Tier I English Composition	4
	Tier I Quantitative Skills	4
	Two Tier II Electives	8

Sophomore Year

AH 211, 212, 213	Art History	12
	Two Tier II Electives	8
	General Electives	4

Freshman and Sophomore Art Courses Studio Foundations:**Quarters 1 and 2:**

ART 110	Seeing and Knowing the Visual Arts (1st quarter preferred)	4
ART 112	Foundations Photog.	4
ART 113	Three-Dimens. Studies	4
ART 116	Drawing I	4
ART 117	Drawing II	4

Quarters 3 through 6

ART 118	Drawing III	4
ART 211	Foundation Concepts	4
ART 212	Color	4
	Three 200-Level Studio Courses (outside of major)	15
ART 281	Basic Photography	5
ART 282	Intermediate Photography	5

Portfolio Review for Admission to Major: Students submit portfolios for review after completion of the Foundations Program (ART 110, 112, 113, 116, 117, 118, 211, 212) and five 200-level studio courses (at least two of these courses must be from your intended major area).

Junior Year

AH 237	Photo History Survey	4
ART 283	Intermediate Photography	5
ART 381*	Photographic Arts I	5
ART 382*	Photographic Arts II	5
	Two Studio Courses (outside of major)	10
	Tier I English Comp (300 Level)	4
	Two Tier II Electives	9
	General Electives	5

Senior Year

	Art History Elective (300/400 Level)	4
ART 383	Photographic Arts III	5
ART 481A**	Adv. Photographic Arts I	5
ART 482**	Adv. Photographic Arts II	5
	Two Studio Courses* (outside of major)	10
ART 496A	Studio Practicum	3
ART 496B	Studio Project	3
	Tier II	5
	Tier III	4
	General Electives	4

Total minimum hours required: 192

*Students may substitute ART 384 Color Photography for ART 381, 382, or 383.

**Students may substitute ART 483 for ART 481A or 482.

Printmaking—Major code BF5128**General Academics****Freshman Year**

	Tier I English Composition	4
	Tier I Quantitative Skills	4
	Two Tier II Electives	8

Sophomore Year

AH 211, 212, 213	Art History	12
	Two Tier II Electives	8
	General Electives	4

Freshman and Sophomore Art Courses Studio Foundations:**Quarters 1 and 2:**

ART 110	Seeing and Knowing the Visual Arts (1st quarter preferred)	4
ART 112	Foundations Photog.	4
ART 113	Three-Dimens. Studies	4
ART 116	Drawing I	4
ART 117	Drawing II	4

Quarters 3 through 6

ART 118	Drawing III	4
ART 211	Foundations Concepts	4
ART 212	Color	4
	Three 200-Level Studio Courses (outside major)	15

Choose at least two printmaking studios from the following: 10

ART 241	Lithography
ART 242	Etching
ART 247	Relief Printing
ART 248	Serigraphy

Portfolio Review for Admission to Major: Students submit portfolios for review after completion of the Foundations Program (ART 110, 112, 113, 116, 117, 118, 211, 212) and five 200-level studio courses (at least two of these courses must be from your intended major area).

Junior Year

Art History Elective (300/400 Level)	4
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Choose three of the following print studios:

ART 341	Prints	5
ART 342	Prints	5
ART 343	Prints	5
ART 346	Art on Computers	4
ART 347	Print Topics	3

Two Studio Courses (outside of major)	10
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Tier I English Comp (300 Level)	4
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Tier II Electives	10
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General Electives	4-7
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Senior Year

Art History Elective (300/400 Level)	4
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ART 441	Prints	5
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ART 442	Prints (take twice)	10
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Two Studio Courses (outside of major)	10
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ART 496A	Studio Practicum	3
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ART 496B	Studio Project	3
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Tier II	5
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Tier III	4
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General Electives	4
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Total minimum hours required: 192

*Graphic design students may elect to use one of the following as one of their studio courses: ART 392D Letterpress, 393D Text and Image in Graphic Design, or 395D Media.

Sculpture—Major code BF5126

General Academics

Freshman Year

Tier I English Composition	4
Tier I Quantitative Skills	4
Two Tier II Electives	8

Sophomore Year

AH 211, 212, 213	Art History	12
	Two Tier II Electives	8
	General Electives	4

Freshman and Sophomore Art Courses

Studio Foundations:

Quarters 1 and 2:

ART 110	Seeing and Knowing the Visual Arts (1st quarter preferred)	4
ART 112	Foundations Photog.	4
ART 113	Three-Dimens. Studies	4
ART 116	Drawing I	4
ART 117	Drawing II	4

Quarters 3 through 6

ART 118	Drawing III	4
ART 211	Foundations Concepts	4
ART 212	Color	4
	Three 200-Level Studio Courses (outside of major)	15
ART 231A	Sculpture I	5
ART 231B	Sculpture II	5

Portfolio Review for Admission to Major: Students submit portfolios for review after completion of the Foundations Program (ART 110, 112, 113, 116, 117, 118, 211, 212) and five 200-level studio courses (at least two of these courses must be from your intended major area.).

Junior Year

Art History Elective (300/400 Level)	4
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ART 331A	Sculpture III	5
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ART 331B	Sculpture IV	5
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ART 331C	Sculpture V	5
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Two Studio Courses (outside of major)	10
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Tier I English Comp (300 Level)	4
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Tier II Electives	5
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General Electives	9
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Senior Year

Art History Elective (300/400 Level)	4
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ART 431	Sculpture VI	5
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ART 431B	Sculpture Workshop (take twice)	10
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Two Studio Courses (outside of major)	10
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ART 496A	Studio Practicum	3
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ART 496B	Studio Project	3
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Tier II	5
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Tier III	4
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General Electives	4
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Total minimum hours required: 192

Art Minor

Minor code ORARTM

The art minor is offered for nonmajors who wish to pursue study in art. To declare an art minor, consult with your major advisor and with a School of Art advisor. Approval from the College of Fine Arts dean's office is required. You must maintain a 2.5 g.p.a. in the minor.

Requirements for an art minor are:

ART 112	Foundations Photography	4
ART 113	Three-Dimens. Studies	4
ART 116	Drawing I	4

Three of the following four: 12

AH 211, 212, 213	History of Art
ART 110	Seeing and Knowing Visual Arts

Two 200- or 300-level art studio courses or two 300- or 400-level art history courses	8-10
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Minimum hours required: 32

School of Comparative Arts

Timothy Wutrich, Administrator

The School of Comparative Arts offers only the Ph.D. degree. Undergraduate course offerings may be used to complete Tier II, Tier III, or elective requirements or to obtain a minor in comparative arts.

Minor in Comparative Arts Minor code ORCART

CA 117	Intro to Fine Arts	4
CA 118	Intro to Fine Arts	4
CA 355A	Cultural Trad. and the Arts	4
CA 355B	Cultural Trad. and the Arts	4
CA 355C	Cultural Trad. and the Arts	4
CA 400	Senior Seminar	3

Two courses or eight hours from:

AH 350	Prin. of Architecture	4
AH 351	Ancient Architecture	4
AH 352	Medieval Architecture	4
AH 353	Renaissance and Baroque Architecture	4
AH 354	19th- and 20th-Century Architecture	4
CA/AH 211	History of Art	4
CA/AH 212	History of Art	4
CA/AH 213	History of Art	4
CA/MUS 321	Music History	3
CA/MUS 322	Music History	3
CA/MUS 323	Music History	3
CA/THAR 470	Tragedy	4
CA/THAR 471	Comedy	4
CA/THAR 472	Forms of Drama	4
CA/THAR 477	Amer. Theater and Drama	4

Minimum credit hours required: 30

School of Dance

Madeleine Scott, Director

The School of Dance, a fully accredited member of the National Association of Schools of Dance, offers an undergraduate four-year professional training program leading to a Bachelor of Fine Arts degree. The overall goal of the school is to prepare you for work in the field and for advanced graduate studies. Throughout your program of study you are encouraged to develop your unique talent in class and performance. Our curriculum provides a foundation upon which you may build a career as a performer, choreographer, or teacher. The core curriculum emphasizes developing performance skills through the study of dance technique, and fostering creative abilities through the study of choreography. Other major coursework provides you with a

broad knowledge base in dance history, ethnology, music, kinesiology, and the teaching of dance. A strong background in liberal arts education that fulfills dance major and university requirements encourages an understanding of the art of dance in its cultural context. Related experiences in the school, such as technical production and arts administration, offer additional career options.

Performances of student and faculty choreography are given regularly in Putnam Studio Theater and a variety of other theatrical spaces. Workshop performances, internships, and College of Fine Arts performance projects offer additional performance opportunities.

An extensive visiting artist program enriches the curriculum during the academic year. Major figures in the field of dance teach, choreograph, hold special workshops, perform, and are engaged for residencies on campus.

Strong individual academic and professional advising characterizes the School of Dance. The development and progress of each dance major are carefully assessed by a faculty advisor. As a dance major or minor, you are expected to maintain at least a 2.7 g.p.a. in dance coursework; if your work is found to be deficient, you may be placed on probation or advised to modify your program of study.

Scholarship auditions for incoming freshmen are held in November and January. Schedule an appointment well in advance by contacting the School of Dance or the Office of Admissions. All transfer students intending to major in dance are required to audition as part of the admission process. An appointment for an audition and information on proficiency requirements can be obtained by contacting the director of the School of Dance.

An honors tutorial program in dance is available for exceptionally talented and motivated students. This individualized program of study requires a distinctive combination of high school grades, test scores, teacher recommendations, and special achievements. Direct inquiries concerning eligibility to the School of Dance. If eligible, you must complete the application, audition, and interview processes by December 15.

Admission Requirements

An audition is required for all students who plan to major or minor in dance. The audition is in the form of a dance class and does not require presentation of previously learned materials. If you wish to be considered for talent scholarships, you must audition by February 1; otherwise, an audition appointment can be made during the school year. Contact the School of Dance, 614-593-1826, for information. Though all prospective students are encouraged to attend auditions on the Ohio University campus, videotapes will be accepted under extenuating circumstances.

Major in Dance**Major code BF5151****Freshman: 50–60**

DANC 090	Composition Lab	0
DANC 101ABC, 102ABC, 103ABC	Modern and Ballet Techniques/Composition	21
DANC 111	Music for Dance	2
DANC 170	View. 20th-Cent. Dance	4
DANC 231	Intro Dance Kinesiology	2
DANC 380	Practicum in Dance Prod.	1–3
	Tier I English composition (100 level)	5
	Tier I quantitative skills	4–5
	Tier II	5–9
	Electives	6–9

Sophomore: 48–60

DANC 090	Composition Lab	0
DANC 201ABC, 202ABC, 203ABC	Modern and Ballet Techniques/Composition	21
DANC 240	Pract. in Tchng. Dance	1
DANC 312	Music for Dance	3
DANC 331	Analysis of Dance Mvt.	4
DANC 380	Practicum in Dance Prod.	1–3
DANC 440	Pract. in Teaching Dance	2
DANC 441	Teaching Dance	3
	Tier II	10–15
	Electives	6–10

Junior: 49–55

DANC 090	Composition Lab	0
DANC 301ABC, 302ABC, 303ABC	Modern and Ballet Techniques/Composition	21
DANC 313	Dance Notation	3
DANC 380	Practicum in Dance Prod.	1–3
DANC 431	Dance Kinesiology Sem.	2
DANC 440	Pract. in Tchng. Dance	2
DANC 443	Teaching Dance	2
DANC 471	History of Dance	4
	English composition (300 level)	4
	Tier II	4–5
	Electives	6–10

Senior: 43–56

DANC 090	Composition Lab	0
DANC 351*	Dance Cultures	4
DANC 401AB, 402AB, 403AB	Modern and Ballet Techniques	15
DANC 460	Senior Seminar	2
DANC 473	History of Dance	4
DANC 480	Production Problems	2–4
	Tier III	4–5
	Electives	12–24

*DANC 351—offered alternate years.

Electives should include a choice of courses in philosophy, psychology, anthropology, studio art, art history, music performance, music history, theater history, acting.

Total minimum hours required: 192**Minor in Dance****Minor code OR5151**

A dance minor is designed for individuals majoring in other fields who wish, in the course of their college experience, to gain an understanding of the art of dance. This program may, however, be applied toward the dance major sequence. To become a dance minor, you must come to the School of Dance for an audition and advising. The first quarter of work is probationary. The minor program includes 30 credits, with a minimum of 4 credits selected from DANC 312, 313, 331, 351, 431, 441, 443, 471, and 473. Program approval is required.

DANC 090	Composition Lab	0
DANC 101 ABC	Technique/Composition	7
DANC 102ABC	Technique/Composition	7
DANC 103 ABC	Technique/Composition	7
DANC 170	View. 20th-Cent. Dance	4
DANC 380	Practicum in Dance Prod.	1
	Dance electives	4–7

DANC 101, 102, and 103 must be taken sequentially within one academic year. Under exceptional circumstances and with faculty approval, other arrangements may be made.

School of Film**R. William Rowley, Director**

The School of Film, in conjunction with the Honors Tutorial College, offers exceptional students the opportunity for practical and scholarly study of film combined with a broad liberal arts education. The program culminates with an honors thesis and leads to the Bachelor of Fine Arts degree in film. Enrollment is limited; only nine students can be enrolled in this program at any given time.

Admission Requirements

To be considered for admission into the program, you are expected to rank in the top 10 percent of your high school class and have a minimum ACT composite score of 28 or a combined SAT score of 1240. You must submit a complete transcript, three letters of recommendation, a 500-word personal essay, and, if you are interested in the production concentration, a portfolio of creative work in any art form.

The Tutorial Program

There are four elements to the tutorial program in film:

1 Eight individual tutorials on topics in film studies and film production. Possible topics in film studies include film theory, criticism, history (including history of experimental, documentary, and narrative film and video), historiography, film and society, research methods, and international cinemas. Possible topics in production include all aspects of film and video preproduction, production, and post-production; screenwriting; producing; directing; and special topics in film/video production.

2 Production and scholarship courses in film. Breadth of understanding can often best be achieved through practical courses in film and video production and courses in film scholarship. Because film is a collaborative art, you will join other students in the appropriate courses. In the second year, you will select an area of specialization within one of two overall areas: film studies or film/video production.

3 Liberal education. The nature of the film medium requires a broad background in liberal arts and a multidisciplinary approach to learning. You are expected to select 20 to 22 elective courses in film, history, English, telecommunications, comparative arts, foreign languages, and other disciplines.

4 Minor area of specialization. In your second year, you will plan a related minor consisting of four courses outside the School of Film. These courses will be chosen according to an individual plan that you develop with the director of tutorial studies. If you wish, for example, to enter a career in producing or arts administration, you should complete a complementary minor such as management, accounting, or business.

Film Scholarship Sample Program: 192 hours

Year 1: 48

FILM 431, 432, 433	Film History	12
	Tutorials (3)	12
	Electives	24

Year 2: 48

FILM 421, 422, 423	International Film	12
FILM 451, 452	Theory and Criticism	8
	Tutorials (3)	12
	Electives	16

Year 3: 48

Seminar I, II, III	12
Tutorials (3)	12
Minor Cognate	12
Electives	12

Year 4: 48

Tutorials (including honors thesis)	30
Electives	18

Film Production Sample Program: 191 hours

Year 1: 48

FILM 431, 432, 433	Film History	12
	Tutorials (3)	12
	Electives	24

Year 2: 47

FILM 461, 462, 463	Production	15
Film 421, 422	International Film I, II	8
	Tutorials (3)	12
	Electives	12

Year 3: 48

Adv. Cinematography	4
Adv. Editing	4
Sound	4
Minor Cognate	12
Tutorials (3)	12

Year 4: 48

Tutorials (including honors thesis)	30
Electives	18

Evaluation

Papers and creative work that you develop as part of each tutorial are discussed and evaluated by the tutor. The director of tutorial studies also consults with tutors about your progress, strengths, and weaknesses so that subsequent tutorials can address problems and build on existing strengths. At the close of each quarter, the tutor files a description of each tutorial as well as an informal evaluation in the college office and School of Film office.

Honors Thesis

You will prepare and defend an original thesis during the third year. This may be either a written thesis or a studio thesis resulting in a film, video, or screenplay. The tutorial committee approves the topic and scope of the thesis no later than the end of fall quarter in the third year of your program. The thesis should reflect your interest in your chosen areas of concentration.

Application

The deadline to apply for admission and scholarships is December 15.

Minor in Film

Minor code ORFILM

Core Courses (required):

FILM 201	Introduction to Film I	4
FILM 202	Introduction to Film II	4
FILM 203	Introduction to Film III	4
FILM 340	Film Techniques	4
FILM 343	Scriptwriting	4

Film Electives (12 hours from the following):

FILM 421	International Film I	4
FILM 422	International Film II	4
FILM 423	International Film III	4
FILM 431	Film History I	4
FILM 432	Film History II	4
FILM 433	Film History III	4
FILM 451	Theory I	4
FILM 471	Film Topics Seminar	1-5
FILM 472	Film Topics Seminar	1-5
FILM 473	Film Topics Seminar	1-5

School of Music

Roger Stephens, Director

The curricula of the School of Music, culminating in the Bachelor of Music degree, are designed to prepare you for a career in teaching, music therapy, or performance. The School of Music provides individual applied study in vocal and instrumental music and offers a wide range of courses in the fields of theory, composition, electronic music, music history and literature, music education, and music therapy. Opportunities are provided for individual participation in student recitals and for performing experience in various organizations such as the Choral Union, University Singers, The Singing Men of Ohio, Women's Chorale, Opera Theater, Symphony Orchestra, Wind Ensemble, Concert Band, Marching Band, jazz ensembles, and many small chamber ensembles. Performing groups are open to all students enrolled in the university, and selection is determined by audition.

The school is a member of the National Association of Schools of Music. Entrance and graduation requirements are in accordance with the standards set by the association.

The Athens Community Music School, a unit within the School of Music, provides instruction for precollege-age students, university students who are not music majors, and other adults. Private instruction is offered in all instruments and voice. Teachers include faculty members, graduate students, and advanced undergraduates. Details are available from the director of the Athens Community Music School.

The School of Music offers an approved minor in music for nonmajors who wish to pursue the study of music.

Requirements for all music majors include the following: proficiency on major instrument and secondary piano, ensemble participation, music theory, music history, and MUS 090 Concert/Recital Attendance. Specific requirements are outlined in the *School of Music Handbook*.

The following course plans outline a practical sequence of required courses to help you plan your course of study. You must complete Tiers I, II, and III of the university General Education Requirement. (See "Graduation Requirements.")

Admission Requirements

If you are a freshman or transfer student who intends to major in music, an audition with your major instrument or voice and a theory examination is required. An interview is also required for prospective music education and music therapy majors. The audition, interview, and theory examination are scheduled on the same day. Specific dates and information are available from the School of Music office.

Bachelor of Music in Performance

These curricula are designed for students demonstrating exceptional talent, technical competence, and the ability to interpret advanced repertoire on their instrument or voice. You are prepared to perform stylistically repertoire from all periods available for your instrument. Experience in solo, chamber music, and large ensemble performance is required. The program prepares graduates to establish private teaching

studios, to engage in professional performance, and to study at the graduate level. An emphasis in pedagogy is available for pianists primarily interested in teaching.

Piano

Major code BM5100

Freshman

MUS 090	Performance Lab	0
MUS 101, 102, 103	Theory I, II, III	9
MUS 104, 105, 106	Dictation and SS I, II, III	3
MUS 125	Intro Music Hist. and Lit.	4
MUS 341	Piano	12
	Performance group	3
	Tier I English comp., quantitative skills	9-10
INCO 101	Fund. of Human Comm.	4
	Tier II Electives	8-9

Sophomore

MUS 090	Performance Lab	0
MUS 201, 202, 203	Theory IV, V, VI	9
MUS 204, 205, 206	Dictation and SS IV, V, VI	6
MUS 321, 322, 323	Music History	9
MUS 341	Piano	12
	Performance group	3
	Electives	9

Junior

MUS 090	Performance Lab	0
MUS 341	Piano	12
MUS 421C*	Chamber Music Lit.	3
MUS 450	Accompanying	3
MUS 455	Conducting	3
MUS 497	Recital	1
	Music theory/lit electives	4-6
	Performance Group	3
	Electives	13
	English comp. (300 level)	4

Senior

MUS 090	Performance Lab	0
MUS 341	Piano	12
MUS 457G	Early Keyboard Rep.	2
MUS 457K, L	Piano Repertoire	4
MUS 458G, H, I	Piano Pedagogy	6
MUS 497	Recital	2
	Performance group	3
	Tier II electives	12-15
	Tier III	4-5
	Elective	3-5

*May be taken in either the junior or senior year. Keyboard skills proficiency exam is required.

Minimum credit hours required for graduation: 194

Piano with an Emphasis in Pedagogy**Major code BM5104****Freshman**

MUS 090	Performance Lab	0
MUS 101, 102, 103	Theory I, II, III	9
MUS 104, 105, 106	Dictation and SS I, II, III	3
MUS 125	Intro to Music Hist. and Lit.	4
MUS 341	Piano	12
	Performance group	3
	Tier I English comp., quantitative skills	9-10
INCO 101	Fund. of Human Comm.	4
	Tier II Electives	8-9

Sophomore

MUS 090	Performance Lab	0
MUS 201, 202, 203	Theory IV, V, VI	9
MUS 204, 205, 206	Dictation and SS IV, V, VI	6
MUS 321, 322, 323	Music History	9
MUS 341	Piano	12
MUS 370	Practicum	6
	Performance group	3

Junior

MUS 090	Performance Lab	0
MUS 341	Piano	12
MUS 372	Adv. Functional Skills	2
MUS 458G, H, I	Piano Pedagogy	6
	Music theory/lit electives	4-6
	Performance group	3
PSY 101	General Psychology	5
PSY 275	Educational Psych.	4
	English composition (300 level)	4
	Tier II elective	4-5
	Elective	3

Senior

MUS 090	Performance Lab	0
MUS 341	Piano	12
MUS 370	Practicum	6
MUS 457G	Early Keyboard Rep.	2
MUS 457K, L	Piano Repertoire	4
MUS 450	Accompanying	3
MUS 455	Conducting	3
MUS 458E	Class Piano Pedagogy	2
MUS 497	Recital	2
	Performance group	3
	Tier II elective	4-5
	Tier III	4-5
	Electives	6

Keyboard skills proficiency exam is required.

Minimum credit hours required for graduation: 195**Voice****Major code BM5101****Freshman**

MUS 090	Performance Lab	0
MUS 101, 102, 103	Theory I, II, III	9
MUS 104, 105, 106	Dictation and SS I, II, III	3
MUS 125	Intro to Music Hist. and Lit.	4
MUS 340	Voice	12
MUS 341 or 141, 142, 143	Piano	6
MUS 375A, 8	Eng., Italian Diction	2
	Performance group	3
ITAL 111, 112	Italian	8
	Tier I English comp., quantitative skills	9-10
	Tier II elective	4-5

Sophomore

MUS 090	Performance Lab	0
MUS 201, 202, 203	Theory IV, V, VI	9
MUS 204, 205, 206	Dictation and SS IV, V, VI	6
MUS 340	Voice	12
MUS 341 or 241, 242, 243	Piano	6
MUS 375C	German Diction	1
MUS 457D	Solo Repertoire	1
	Performance group	3-6
GER 111, 112	German	8
	Tier II elective	4-5

Junior

MUS 090	Performance Lab	0
MUS 321, 322, 323	Music History	9
MUS 340	Voice	12
MUS 375D	French Diction	1
MUS 457D	Solo Repertoire	1
MUS 497	Recital	1
	Music theory/lit elective	2-3
	Performance group	6
FR 111, 112	French	8
	English composition (300 level)	4
	Tier II electives	8-10

Senior

MUS 090	Performance Lab	0
MUS 340	Voice	12
MUS 421F	Literature of Opera	3
MUS 455, 456B	Conducting	6
MUS 457D	Solo Repertoire	1
MUS 458D	Vocal Pedagogy	2
MUS 497	Recital	2
	Music theory/lit elective	2-3
	Performance group	6
	Electives	6
	Tier II elective	4
	Tier III	4-5

Demonstration of piano proficiency is required.

Minimum credit hours required for graduation: 210

Organ**Major code BM5102****Freshman**

MUS 090	Performance Lab	0
MUS 101, 102, 103	Theory I, II, III	9
MUS 104, 105, 106	Dictation and SS I, II, III	3
MUS 125	Intro to Music Hist. and Lit.	4
MUS 343	Organ	12
	Performance group	3
	Tier I English comp., quantitative skills	9-10
INCO 101	Fund. of Human Comm.	4
	Tier II electives	8

Sophomore

MUS 090	Performance Lab	0
MUS 147, 148	Class Voice	4
MUS 201, 202, 203	Theory IV, V, VI	9
MUS 204, 205, 206	Dictation and SS IV, V, VI	6
MUS 321, 322, 323	Music History	9
MUS 343	Organ	12
	Performance group	3
	Electives	3-4

Junior

MUS 090	Performance Lab	0
MUS 343	Organ	12
MUS 407A, B, C or MUS 455, 456 and MUS 497	Counterpoint	9
	Conducting Elective	or 9
	Recital	1
	Performance group	3
	Music elective	6
	Elective, French or German	12
	English composition (300 level)	4

Senior

MUS 090	Performance Lab	0
MUS 343	Organ	12
MUS 407A, B, C or MUS 455, 456 and MUS 421E	Counterpoint	9
	Conducting Elective	or 9
MUS 497	Literature of Organ Music	3
	Recital	2
	Performance group	3
	Tier II electives	9-10
	Tier III	4-5
	Electives	6

Minimum credit hours required for graduation: 193**Orchestral Instruments****Strings, Woodwinds, Brass, or Percussion****Major code BM5103****Freshman**

MUS 090	Performance Lab	0
MUS 101, 102, 103	Theory I, II, III	9
MUS 104, 105, 106	Dictation and SS I, II, III	3
MUS 125	Intro to Music Hist. and Lit.	4
	Major instrument	12
MUS 341 or MUS 141, 142, 143	Piano Class Piano	6
	Band/orchestra	6
MUS 254*	Chamber Music	3
	Tier I English comp., quantitative skills	9-10

Sophomore

MUS 090	Performance Lab	0
MUS 201, 202, 203	Theory IV, V, VI	9
MUS 204, 205, 206	Dictation and SS IV, V, VI	6
MUS 254	Chamber Music	3
MUS 321, 322, 323	Music History	9
MUS 341 or MUS 141, 142, 143	Piano Class Piano	6
	Major instrument	12
	Band/orchestra	6

Junior

MUS 090	Performance Lab	0
	Major instrument	12
	Music theory and literature electives	9
MUS 455, 456A	Conducting	6
	Band/orchestra	6
MUS 254	Chamber Music	3
MUS 497	Recital	1
	English composition (300 Level)	4
	Tier II electives	12

Senior

MUS 090	Performance Lab	0
	Major instrument	12
MUS 457, 458	Solo Repertoire, Pedagogy	3
	Band/orchestra	6
MUS 254	Chamber Music	3
MUS 304	Instrumentation	3
MUS 497	Recital	2
	Tier II electives	12-14
	Tier III	4-5
	Elective	2

*12 quarters chamber music required for string majors; 9 quarters for other instrumentalists.

Demonstration of piano proficiency is required.

Minimum credit hours required for graduation: 203

Bachelor of Music in Music Theory or Composition

The curriculum is designed to prepare exceptionally talented students for careers as theorists or composers or for continued study or graduate work in theory or composition. The curriculum focuses on basic musicianship skills; analytical, aural, and writing skills; compositional facility and technique; and the acquisition of a historical perspective on, and basic knowledge of, technological innovations in the field.

Theory

Major code BM5116

Freshman

MUS 090	Performance Lab	0
MUS 101, 102, 103	Theory I, II, III	9
MUS 104, 105, 106	Dictation and SS I, II, III	3
MUS 125	Intro to Music Hist. and Lit.	4
MUS 178	Computer Skills for Musicians	2
	Major instrument	6
	Class Piano ¹	6
	Performance group	3
	Tier I English comp., quantitative skills	9-10
INCO 101 or INCO 103	Fund. of Human Comm. Public Speaking	4
	Electives	8-10

Sophomore

MUS 090	Performance Lab	0
MUS 201, 202, 203	Theory IV, V, VI	9
MUS 204, 205, 206	Dictation and SS IV, V, VI	6
MUS 321, 322, 323	Music History	9
	Major instrument	6
	Class Piano ¹	6
	Performance group	3
	Tier II electives	12-15

Junior

MUS 090	Performance Lab	0
MUS 309	Composition	6
MUS 407A, 8, C	Counterpoint	9
MUS 415	Microcomputer Appl.	3
	Major instrument	6
	Performance group	3
	English composition (300 level)	4
	Tier II electives	8-10
	Elective	6-8

Senior

MUS 090	Performance Lab	0
MUS 304, 305, 306	Instrumentation, Orchestration I, II	9
MUS 402A, 8, C	Styles	9
MUS 421	Electives	9
MUS 455	Conducting	3
	Performance group	3
	Tier III elective	4-5
	Electives	3-5
MUS 414	Senior Thesis	2
MUS 498	Independent Project	4

If piano is the major instrument, the secondary instrumental requirement may be satisfied by one of the following methods:

a by taking applied lessons on an instrument other than piano for 6 quarters (1 hour per quarter).

b by taking 3 quarters (2 hours per quarter) of either 261 String Methods and Materials or 263 Wind and Percussion Methods and Materials, or a combination of both.

Demonstration of piano proficiency is required.

Minimum credit hours required for graduation: 196

Composition

Major code BM5105

Freshman

MUS 090	Performance Lab	0
MUS 101, 102, 103	Theory I, II, III	9
MUS 104, 105, 106	Dictation and SS I, II, III	3
MUS 125	Intro to Mus. Hist. & Lit.	4
MUS 178	Computer Skills for Musicians	2
	Major instrument	6
	Class Piano ¹	6
	Performance group	3
	Tier I English comp., quantitative skills	9-10
INCO 101 or INCO 103	Fund. of Human Comm. Public Speaking	4
	Tier II electives	8-10

Sophomore

MUS 090	Performance Lab	0
	Theory IV, V, VI	9
MUS 204, 205, 206	Dictation and SS IV, V, VI	6
MUS 321, 322, 323	Music History	9
MUS 413	Intro to Electronic Music	2
MUS 415	Microcomputer Applications	3
	Major instrument	6
	Class Piano ¹	6
	Performance group	3
	Tier II electives	8-10

Junior

MUS 090	Performance Lab	0
MUS 310, 311, 312	Composition	6
MUS 407A, 8, C	Counterpoint	9
	Major instrument	6
	Performance group	3
	English composition (300 level)	4
	Tier II electives	8-10
	Elective	4-5

Senior

MUS 090	Performance Lab	0
MS 304, 305	Instr. Orch. I & II	6
MUS 402A, B, C	Styles	9
MUS 309	Composition	6
MUS 414	Senior Thesis	2
MUS 421	Electives	9
MUS 455	Conducting	3
	Performance group	3
	Tier III	4-5
	Electives	3

Junior

MUS 090	Performance Lab	0
MUS 421	Electives	9
	Theory electives	6-9
	Modern languages	12
	Major instrument	6
	Performance group	3
	English composition (300 level)	4
	History electives	8
MUS 498	Independent Project*	2

If piano is your major instrument, the secondary instrumental requirement may be satisfied by one of the following methods:

a by taking applied lessons on an instrument other than piano for 6 quarters (1 hour per quarter).

b by taking 3 quarters (2 hours per quarter) of either 261, String Methods and Materials, or 263, Wind and Percussion Methods and Materials, or a combination of both.

Demonstration of piano proficiency is required.

Minimum credit hours required for graduation: 194

Senior

MUS 090	Performance Lab	0
MUS 414	Senior Thesis	2
MUS 421	Electives	9
MUS 428	Jazz History	3
MUS 455	Conducting	3
	Modern languages	12
	Performance group	3
	Tier II electives	8-10
	Tier III	4-5

*Independent Project determined in consultation with music history chair.

Demonstration of piano proficiency is required.

Minimum credit hours required for graduation: 194

Bachelor of Music in Music History and Literature

Major code BM5114

The curriculum is designed to provide a broad foundation in music history, theory, performance, and research in music for students interested in these and related areas at the graduate level. While diversified in its academic and performance components, the curriculum sufficiently emphasizes each, giving you a variety of choices in selecting specialization at higher degree levels.

Freshman

MUS 090	Performance Lab	0
MUS 101, 102, 103	Theory I, II, III	9
MUS 104, 105, 106	Dictation and SS I, II, III	3
MUS 125	Intro to Music Hist. and Lit.	4
	Major instrument	6
	Minor instrument	3
	Performance group	3
	Tier I English comp., quantitative skills	9-10
	English electives	10
INCO 101	Fund. of Human Comm.	4
MUS 498	Independent Project*	1

Sophomore

MUS 090	Performance Lab	0
MUS 201, 202, 203	Theory IV, V, VI	9
MUS 204, 205, 206	Dictation and SS IV, V, VI	6
MUS 321, 322, 323	Music History	9
	Major instrument	6
	Minor instrument	3
	Performance group	3
	Tier II electives	12-15

Bachelor of Music in Music Education

To specialize in music education, you must choose one of two areas of concentration: instructional music education or choral/general music education. Upon completion of the program and State Board of Education requirements, the music education candidate will receive an Ohio Multi-Age License for teaching music in the public schools.

Choral Emphasis

Major code BM5106

Freshman

MUS 090	Performance Lab	0
MUS 101, 102, 103	Theory I, II, III	9
MUS 104, 105, 106	Dictation and SS I, II, III	3
MUS 125	Intro to Music Hist. and Lit.	4
MUS 163	Intro to Music Education	2
	Major instrument	6
MUS 178	Computer Skills for Musicians	2
	Minor instrument	6
	Performance group	3-6
INCO 103	Fund. of Public Spkg.	4
	Tier I English comp., quantitative skills	9-10
PSY 101	General Psychology	5

Sophomore

MUS 090	Performance Lab	0
MUS 182	Rec. Mus. Instr. and Mat.	3
	Major instrument	6
	Minor instrument	6
	Performance group	3-6
MUS 201, 202, 203	Theory IV, V, VI	9
MUS 204, 205, 206	Dictation and SS IV, V, VI	6
EDCI 200	Learning Human Growth and Development	6
EDCI 201	Char of Learners with Exceptionalities	3
EDCI 202	Field Exp. in Education	2
EDCI 203	Technological Appl. in Ed.	4
	Tier II electives	8-10

Junior

MUS 090	Performance Lab	0
MUS 263A	Perc. Meth. Classes	2
MUS 321, 322, 323	Music History	9
	Music History Elective	3
MUS 364	Sec. Choral Techniques	3
MUS 366	Teach. Mus. Elem.	3
MUS 455, 456B	Conducting	6
MUS 468	Gen. Music in JHS	3
	Major instrument	6
	Performance group	3-6
EDMC 300	Middle Childhood Inst. Process and Curriculum	4
EDCI 371A	Inst. Adapt. for Learners with Exceptionalities and Diverse Needs	3
	English composition (300 level)	4

Senior

MUS 090	Performance Lab	0
MUS 261, 263	Instr. Meth. Classes	6
	Music Theory Elective	3
MUS 366B	Early Child. Mus. Ed.	3
	Performance group	2-4
MUS 458D	Vocal Pedagogy	2
EDCI 301	Educ. and Cult. Diversity	3
EDM 400	School, Society, and the Professional Educator	4
EDCI 420	Teaching Reading in the Content Area	5
EDPL 461, 463, 465	Student Teaching	16
	Tier III	4
	Elective	5

Minimum credit hours required for graduation: 211

Demonstration of piano proficiency is required. See the *School of Music Handbook* for a complete statement concerning requirements.

Instrumental Emphasis**Major code BM5107****Freshman**

MUS 090	Performance Lab	0
MUS 101, 102, 103	Theory I, II, III	9
MUS 104, 105, 106	Dictation and SS I, II, III	3
MUS 125	Intro to Music Hist. and Lit.	4
MUS 163	Intro to Music Education	2
MUS 178	Computer Skills for Musicians	2
INCO 103	Fund. of Public Spkg.	4
PSY 101	General Psychology	5
	Major instrument	6
	Minor instrument	6
	Performance group	3-6
	Tier I English comp., quantitative skills	9-10

Sophomore

MUS 090	Performance Lab	0
MUS 201, 202, 203	Theory IV, V, VI	9
MUS 204, 205, 206	Dictation and SS IV, V, VI	6
MUS 261 or 263	Instr. Meth. Classes	4
EDCI 200	Learning, Human Growth, and Development	6
EDCI 201	Char. of Learners with Exceptionalities	3
EDCI 202	Field Exp. in Education	2
EDCI 203	Technological Appl. in Ed.	4
	Major instrument	6
	Minor instrument	6
	Performance group	3-6
	Tier II electives	4-5

Junior

MUS 090	Performance Lab	0
MUS 263	Instr. Meth. Classes	4
MUS 304	Instrumentation	3
MUS 321, 322, 323	Music History	9
MUS 362, 362L	Teach. Inst. Mus. Elem/MS	4
MUS 363	Second, School Instr. Meth. and Mat.	3
MUS 455, 456A	Conducting	6
MUS 464	Marching Band Tech.	2
EDCI 301	Educ. and Cult. Diversity	3
EDCI 371A	Inst. Adapt. for Learners w/ Excep. and Diverse Needs	3
EDMC 300	Mid. Childhood Instr. Process and Curriculum	4
	Major instrument	6
	Music education elective	2
	Performance group	3-6
	English composition (300 level)	4

Senior

MUS 090	Performance Lab	0
MUS 147, 148	Class Voice	4
MUS 261 or 263	Instr. Meth. Classes	10
MUS 366, 366A, 366B, 468	Electives	5
MUS 465	Jazz Ensemble Methods	2
EDCI 400	School, Society, and the Professional Educator	4
EDCI 420	Teaching Reading in the Content Area	5
EDPL 461, 463, 465	Student Teaching	16
	Performance group	2-4
	Tier III	4-5

Minimum credit hours required for graduation: 214

Demonstration of piano proficiency is required. See the *School of Music Handbook* for a complete statement concerning requirements.

Bachelor of Music in Music Therapy**Major code BM5115**

The curriculum attracts students desiring to pursue a career in music therapy, combining musical talent and interest in the behavioral sciences. The program offers a strong practicum component leading to a six-month internship and meets the curricular guidelines established by the American Music Therapy Association. Coursework prepares you for clinical placement in medical, educational, and community health settings.

Freshman

MUS 090	Performance Lab	0
MUS 101, 102, 103	Theory I, II, III	9
MUS 104, 105, 106	Dictation and SS I, II, III	3
MUS 141, 142, 143	Class Piano ¹	6
MUS 180	MT Practicum I	1
MUS 181	Intro to Music Therapy	3
MUS 182	Rec. Mus. Instr. and Mat.	3
	Major instrument	6
	Performance group	3
	Tier I English composition	5
HSS 108	Intro Sp. Disord.	5
EDSP 271	Intro Educ. of Except. Children and Youth	4
PSY 101	General Psychology	5
PESS 115, 275	Rhythmics, ES Rhythm and Dance or Dance elective	2

Sophomore

MUS 090	Performance Lab	0
MUS 125	Intro to Music Hist. and Lit.	4
MUS 147, 148, 149	Class Voice ²	6
MUS 165	Class Guitar ³	2
MUS 201, 202, 203	Theory IV, V, VI	9
MUS 204, 205	Dictation and SS IV, V	4
MUS 241, 242, 243	Class Piano ¹	6
MUS 280	MT Practicum II ⁴	3
MUS 281	Obs., Eval., Res. in MT	3
MUS 282	MT Activ. for Classroom and Clinic	3
	Major instrument	6
	Performance group	3
EDSP	Behavioral sci. elective ⁵	5

Junior

MUS 090	Performance Lab	0
MUS 261	String Meth. Class	2
MUS 322, 323	Music History	6
MUS 359, 360, 361 ¹	Class Piano, Organ, Piano elective	3-6
MUS 366	Teach. Mus. Elem.	3
MUS 380	MT Practicum III ⁴	3
MUS 381, 382	Psych. Found. Music I, II	6
MUS 455	Conducting	3
MUS 481	MT Prin. and Tech. I	3
	Performance Group	3
PSY 120	Statistics	5
PSY 332	Abnormal Psychology	4
	Music education, theory, or history elective	2-3
	Tier I English comp.—technical writing (300 level)	4

Senior

MUS 090	Performance Lab	0
MUS 263	VW, Brass, Perc. Meth.	6
MUS 480	MT Practicum IV ⁴	3-6
MUS 482, 483	MT Prin. and Tech. II, III	6
MUS 489	Clin. Training in MT	1
BIOL 101 or BIOS 103	Principals of Biology Human Biology	5
HLTH 230	Med. Term. for Health Adm.	4
EDSP	Behavioral sci. electives ⁵	10
	Tier III elective	4
	Electives	8

Minimum credit hours required for graduation: 203

The music therapy curriculum is designed to meet the requirements of the School of Music and the American Music Therapy Association (AMTA). In addition to the regular coursework, you must complete MUS 489 Clinical Experience (six-month internship) at a clinical facility approved for the training of music therapists before graduation. Upon graduation, you are eligible to take the board certification exam to receive national credentials as a board certified music therapist (MT-BC) with CBMT.

¹ Secondary instrument is piano (class) for all students whose major is not piano. Piano principals do not have a required second instrument.

² Substitution may be made with advisor approval. Alternative courses include MUS 372 Adv. Funct. Skills for Piano Princ. (2), MUS 165 Guitar I (2), and MUS 166 Guitar II (2).

³ Guitar proficiency test available for course waiver.

⁴ 1-2 hours depending on practicum hours.

⁵ Consult University-Wide Graduation Requirements section for EDSP/behavioral science electives that meet Tier II requirements.

⁶ Music Education—Music Therapy double majors must take either PSY 120 or MATH 113 in the freshman year.

⁷ Select either the BIOL 101/BIOS 301 or BIOS 103/HLTH 230 combination.

Minor in Music

Minor code ORMUSI

The music minor is offered for nonmajors who wish to study music. To pursue a minor in music, you must receive permission from the associate director of the School of Music. You must audition for and be accepted into a performance ensemble before declaring and receiving final approval from the College of Fine Arts dean's office.

Theoretical Studies

MUS 100, 101A, 102A Music Theory* 9

History and Literature

MUS 120 Intro to Music Literature 3
or MUS 125 Intro to Mus. Hist. and Lit. or 4

Two courses selected from the following:

MUS 322, 323 Music History 3
MUS 427 Folk Music 3
MUS 428 Jazz History 3

Ensemble

Ensemble (3 quarters) 3

Electives

Courses in music totaling a minimum of 9 credit hours (applied music is strongly encouraged subject to studio availability)

Minimum hours required: 30

*MUS 101, 102, and 103 may be substituted providing you achieve a satisfactory score on the Freshman Music Theory Entrance Examination and have the approval of the head of the Music Theory Division.

School of Theater

Vincent J. Cardinal, Director

The undergraduate theater experience at Ohio University is a blend of intensive training in a selected area of concentration, core theater studies, and liberal arts experiences leading to a professionally oriented Bachelor of Fine Arts degree, or to a more general liberal-arts-oriented Bachelor of Arts degree through the College of Arts and Sciences.

The theater is not an island unto itself; it exists as a part of and because of a larger world. For this reason, advisors in the School of Theater strive to help theater majors satisfy the university General Education Requirements in a manner that encourages them to understand and contribute to the larger world. In addition, all undergraduate majors devote a portion of their theater studies to an examination of the literature and history of theater, the role of theater in society, and the relationship of theater to other art disciplines.

Production activities in the School of Theater are considered essential to the total curriculum planning of a major. Majors register each quarter for a credited production assignment. In the first year of training, you will participate in productions through technical and management assignments, while your second, third, and fourth years include opportunities to participate as a performer, advanced technician, designer, or managerial assistant.

Ongoing individual advising between you and your faculty advisor is an extremely important aspect of the training programs in the School of Theater. Your progress is evaluated quarterly by your advisor and faculty in your training area. If progress is considered unsatisfactory at the end of any quarter, you may be placed on probation, recommended for transfer to another sequence or degree within the school, required to modify your program, or denied further enrollment as a degree candidate in the School of Theater. You must earn a grade of C or better in each theater class required for your major.

Other specific requirements and expectations relating to production and curriculum are distributed to all incoming students upon their arrival. Because the school's curricula are under revision, be sure to consult an advisor in the School of Theater for current information.

A minor or second major is possible in some cases if you have used careful advising procedures and made intelligent use of all elective and university General Education Requirement course options. In addition, highly motivated and talented students can pursue their degree work in the School of Theater through the Honors Tutorial College, if the tutorial mode of instruction is appropriate for the individual student.

Admission Requirements

Once you have been admitted to Ohio University, you may enter the School of Theater as a general theater major. For scholarship consideration, auditions and interviews are conducted during the fall and winter quarters of each year for students considering entrance the following fall. You are assigned a faculty advisor when you enroll.

Procedure for Admission into BA and BFA Programs

At the end of the freshman year, you are expected to declare a degree program. Under normal circumstances, you must complete all the 100-level theater core requirements to be considered for entry into a degree program. A general theater major who has successfully completed the freshman coursework will be accepted into one of the degree programs (BFA or BA). Students audition, interview, or present portfolios for entry into the Bachelor of Fine Arts programs (performance, theater arts and drama, or production design and technology). You may also enroll in a course of study leading to the Bachelor of Fine Arts degree.

Provisional acceptance into BFA programs: End of freshman year.

Final acceptance into BFA programs: End of fall quarter, sophomore year.

After acceptance into one of these programs, retention is based on periodic review of the student's progress, with a major review at the end of the sophomore year.

Theater Core Courses

(Required of all B.F.A. majors)

THAR 101	Intro to Profession	1
THAR 110	Intro to Performance	2
THAR 111*	Improvisation I	4
THAR 112*, or THAR 213	Intro to Perf. Warm-up Acting Fundamentals I	4
THAR 120	Fundamentals of Directing	3
THAR 130	Intro to Design	3

THAR 131	Intro to Stagecraft	3
THAR 151	Fundamentals of Playwriting	3
THAR 172	Elements of Performance	3
THAR 220	Directing I	3
THAR 270, 271, 272	Theater History I, II, III	12
	Two seminars from 470 series	8

*For students interested in auditioning for the performance program. Students may fulfill the acting component of the theater core by completing 110, 111, and 112 or completing 110 and 213.

Practicum

Freshman	Two 100-level practica (winter, spring)	6
Sophomore	Three 200-level practica (fall, winter, spring)	6
Junior	Two 300-level practica	6
Senior	Three 400-level practica (fall, winter, spring) in area of emphasis	6

Minimum total practicum credits: 24

All majors are required to enroll for Lunchbag Theater Seminar each quarter of residence.

Total: 69

Liberal Arts Requirements for Theater Majors

In addition to the Tier I, II, and III requirements, all majors in the School of Theater are required to take two English courses at the 200 level or above. Two Shakespeare courses are strongly advised and may be required in a specific program. (Tier I junior composition does not fulfill this requirement.)

Minimum Grade Requirement

All theater majors are required to attain a minimum grade of C in any theater course required for graduation.

Electives

Distribution of elective hours will vary depending upon degree requirements of a particular area. You are encouraged to use your elective choices in a manner that expands upon the liberal arts experience, particularly with choices in the areas of literature, philosophy, history, and psychology. If you are in acting, you also are advised to strengthen your personal talents in the areas of music, dance, and art.

Theater Performance (Acting) Major

Major code BF5161

(Admission by application and audition only)

The B.F.A. in theater performance is a rigorous program fostering creative, cognitive, and artistic skills. It is intended to advance the education and training of motivated, curious, self-reliant, adaptable theater artists capable of dealing with all aspects of theater and contributing to the relationship between theater and society. Theater and performance serve as the basis of the undergraduate fine arts education. Theater is approached technically as craft and art, but also as a way of looking at, interpreting, organizing, and expressing one's ideas and thoughts. We seek serious, disciplined students interested in demanding technical training, who want the art of theater and performance to be at the core of their education.

Formal application and audition into the Theater Performance Program (TPP) takes place during the freshman year. Transfer students from other programs and institutions are accepted provided they can meet the requirements of the program, the school, and university General Education.

In addition to the university and theater core requirements, you are required to include additional electives from a broad range of areas and to maintain minimum academic and artistic standards. Tier II classes can be counted toward meeting these requirements. The B.F.A. in performance fosters diversification within the theater study and in disciplines essential to a liberal education. Careful and consistent faculty supervision and advising are an integral part of the program.

Preparation for Admission to TPP

Freshman performance classes emphasize preparation and examination, i.e., preparation for the audition into the TPP and examination of your skills, interests, and talents. Assisted by an assigned faculty advisor, you may select coursework designed to allow broad exposure to diverse courses in the university while building a strong foundation in acting.

During the freshman and sophomore years, you should complete the bulk of the Tier I and II university requirements as well as the freshman and sophomore components of the theater core. After your freshman year (or first quarter of residency in the case of a transfer student), you are eligible to audition for all school productions. Subsequent coursework in acting is available to theater majors who do not join the performance program.

Theater Performance Program

The B.F.A. in theater performance offers a curriculum of rigorous technique instruction with an emphasis on international and ensemble theater. Complementing a faculty of working professionals are an important visiting artist program and a developing internship program that includes internships in the United States and abroad. In your senior year, you are required to complete your practicum requirements in acting. The culminating experiences of the B.F.A. degree program are three quarters of acting practicum and the senior project.

Required studio performance courses are the core of the program at all three year levels. The sophomore year is dedicated to the acting foundation and the junior year to classical ensemble, leading to a senior year that emphasizes new work from original scripts to ensemble collaboration. There is programmatic interaction with the MFA programs in Directing, Playwriting, and Acting.

There is constant communication among the faculty to evaluate your progress, confirm individual progress decisions, and resolve any issues germane to your success in the program. If you are struggling academically or programmatically, you may receive a letter of concern or be placed on probation. Continued concern indicates doubt about the appropriateness of your continuation in the TPP.

Summary of Minimum Requirements

Theater Performance Studios	34 (min)
THAR 415 Acting Practicum	6 (min)
THAR 418 Senior Project	1
THAR 237 Makeup	1
Total TPP Minimum Requirements	42

Additional Electives

You are required to include electives in your program plan and are encouraged to choose from the areas listed below. Your advisor will monitor the progress of this requirement.

Foreign Language/Culture
 Third World Culture, International Studies
 Philosophy, including, but not limited to, philosophy of art
 Anthropology/ Political Science/History
 Literature (nondramatic)
 Music and Music History
 Studio Art and Art History

Theater Arts and Drama

Major code BF5164—Directing

Major code BF5166—Dramaturgy

Major code BF5167—Management

Major code BF5165—Playwriting

(Depending on the area of emphasis, admission requirements may include an interview, writing samples, a letter of recommendation, or the successful completion of introductory courses.)

The theater arts and drama program offers a broad-based theater education that stresses theater as a collaborative art. In addition to courses within the area of emphasis, students accepted into theater arts and drama must take a wide range of courses in a variety of other areas that may include advanced acting, theatrical design, literature, English, history, and art history. This range of required courses is designed to provide a strong foundation for individualized study in the chosen area of emphasis: directing, dramaturgy, management, and playwriting.

During the first two years, you are encouraged to complete much of the theater core and university General Education requirements to gain a broad exposure to all areas of the theater. At the end of your freshman year, you choose an area of emphasis and then interview for entry into the theater arts and drama program. The playwriting and dramaturgy emphases require writing samples; the directing and management emphases require satisfactory completion of introductory courses in the field plus a letter of recommendation from the instructor of those courses.

Once accepted into the program, you will have the opportunity for practical theater experience in your area of emphasis while continuing broad but focused studies in other areas. Your progress toward graduation is evaluated at the end of your junior year. This evaluation plus the satisfactory completion of a senior project in your area of emphasis will demonstrate progress toward graduating and achievement in your area of emphasis. Careful and consistent year-round faculty supervision and advising are also integral parts of the program.

Upon the fulfillment of all university, theater core, and program requirements, you will graduate with a major in theater arts and drama with an emphasis in your chosen area of concentration. This degree is designed to prepare you for further training, whether in graduate school or an entry-level position in professional theater.

In addition to university and theater core requirements, you are required to complete the following courses:

Directing Emphasis: 56 credits

THAR 179	Thea. Arts & Drama Wksp.	2
THAR 279	Thea. Arts & Drama Wksp.	2
THAR 379	Thea. Arts & Drama Wksp.	2
THAR 233	Theatrical Design Skills	3
THAR 313	Acting	4
THAR 413	Acting	4
THAR 216	Body Training	2
THAR 217	Voice Training	2
THAR 320	Directing I	4
THAR 420	Directing II	4
THAR 425	Practicum in Directing	4
THAR 426	Stage Management	3
THAR 438A or THAR 438A	Historical Bases of Design I Historical Bases of Design II	4
AH 211	History of Art: Prehistoric to Early Christian	4
or AH 212	History of Art: Early Christian to Renaissance	
or AH 213	History of Art: Baroque to Present	
ENG	Courses above 300	4

At least two of the following four:

ENG 200	Intro to Literature	4
ENG 204	Intro to Lit: Classical Trad.	4
ENG 205	Intro to Lit: Romantic Trad.	4
ENG 206	Intro to Lit: Modern Trad.	4

Dramaturgy Emphasis: 58 credits

THAR 179	Thea. Arts & Drama Wksp.	2
THAR 279	Thea. Arts & Drama Wksp.	2
THAR 379	Thea. Arts & Drama Wksp.	2
THAR 350	Playwriting	3
THAR 450	Advanced Playwriting	3
THAR 320	Directing I	4
THAR 479	Ind. Studies in Theater History and Criticism	6
ENG 307J	Writing and Research in English Studies	4
THAR 470 or THAR 471 or THAR 472 or THAR 477	Tragedy Comedy Forms of Drama American Theater and Drama	4
THAR 438A or THAR 438A	Historical Bases of Design I Historical Bases of Design II	4
AH 211	History of Art: Prehistoric to Early Christian	4
or AH 212	History of Art: Early Christian to Renaissance	
or AH 213	History of Art: Baroque to Present	

HIST 121	Western Heritage: Classical Age	4
or HIST 122	Western Heritage: Medieval Legacy	
or HIST 123	Western Heritage: Modernity	
ENG	Courses above 300	4

At least two of the following four:

ENG 200	Intro to Literature	4
ENG 204	Intro to Lit: Classical Trad.	4
ENG 205	Intro to Lit: Romantic Trad.	4
ENG 206	Intro to Lit: Modern Trad.	4

Management Emphasis: 53 credits

THAR 179	Thea. Arts & Drama Wksp.	2
THAR 279	Thea. Arts & Drama Wksp.	2
THAR 379	Thea. Arts & Drama Wksp.	2
THAR 330	Elements of Technical Direction	4
THAR 402	Theater Management	4
THAR 426	Stage Management	3
THAR 409	Ind. Studies in Admin.	6
ACCT 101 or 201	Financial Accounting	4
MKT 301	Marketing Principles	4
MGT 430	Management Systems— Decision Making	4
ECON 103	Prin. of Microeconomics	4
MGT 200	Intro to Management	4
THAR 405 or THAR 427	Practicum in Mgt. Practicum in Stage Mgt.	4

At least two of the following three:

THAR 230	Stagecraft: Scenery	3
THAR 231	Stagecraft: Lighting	3
THAR 232	Stagecraft: Costume	3

Playwriting Emphasis: 52 credits

THAR 179	Thea. Arts & Drama Wksp.	2
THAR 279	Thea. Arts & Drama Wksp.	2
THAR 379	Thea. Arts & Drama Wksp.	2
THAR 233	Theatrical Design Skills	3
THAR 313	Acting	4
THAR 350	Playwriting	3
THAR 450	Advanced Playwriting	3
THAR 451	Playwriting Workshop	3
THAR 459	Ind. Studies in Playwriting	6
THAR 438A or THAR 438A	Historical Bases of Design I Historical Bases of Design II	4
THAR 470 or THAR 471 or THAR 472 or THAR 477	Tragedy Comedy Forms of Drama American Theater and Drama	4

Production Design and Technology

Major code BF5162

(Interview and portfolio review by the end of the freshman year required for admission).

The B.F.A. in production design and technology is available with an emphasis on the environmental aspects of performance. Design and technology in scenery, costumes, lighting, properties, sound, stage management, and makeup are taught in a

series of courses and special projects throughout the four-year curriculum. Productions are prepared under the close personal advisement and participation of the production faculty and staff. Qualified students are challenged with major creative responsibilities.

During the first two years, you are encouraged to complete theater core and general education requirements. In consultation with your advisor, you may also enroll in selected production design technology courses at the 200 level and above. At the end of your freshman year, you interview and present your portfolio for provisional acceptance into the program. At the end of your sophomore year, you will again present your portfolio and interview for continuing status in this program. Continuing in the program is contingent upon successful annual portfolio reviews.

In addition to the university and theater core requirements, you are required to complete the following:

THAR 230	Stagecraft: Scenery	3
THAR 231	Stagecraft: Lighting	3
THAR 232	Stagecraft: Costume	3
THAR 233	Theatrical Design Skills	3
THAR 338 or THAR 438A or THAR 438B	History of Costume Hist. Bases of Design I Hist. Bases of Design II	4
THAR 431 or THAR 432 or THAR 434	Lighting Design II Costume Design II Scene Design II	4
At least two of the following three:		
THAR 331	Theory of Lighting	4
THAR 332	Costume Design I	4
THAR 334	Scene Design	4

A minimum additional 15 credits selected from production design and technology classes numbered 300 and above, or areas related to production design and technology approved by your advisor.

Total: 43

Minor in Theater

Minor code ORTHAR

Required Core Courses: 13–14

THAR 110	Intro to Performance	2
THAR 170 or THAR 172	The Theater Exper. Elem. of Performance	4 3
	Practicum (minimum of 3 experiences; at least 1 in PD&T or Mgt)	6

At least one course (not less than 3 credits) in each of the following groups:

- 1 THAR 130, 131 (3)
- 2 THAR 210; 218A, B, C; 179, 279, 379 (4)
- 3 THAR 270, 271, 272; 470 series (4)

Total required groups: 11

Electives: 5–6

Chosen from any available courses in the School of Theater.

Total: 30

Theater

See "Theater" in the College of Arts and Sciences section for information regarding the Bachelor of Arts in Theater.

College of Health and Human Services

Grosvenor Hall

Gary S. Neiman
Dean

Lee Cibrowski
Associate Dean

Margaret Goodwin
Assistant Dean for Student Services

Shelley Tims
Coordinator of Multicultural
Student Services

The College of Health and Human Services is made up of the School of Health Sciences, the School of Hearing and Speech Sciences, the School of Human and Consumer Sciences, the School of Nursing, the School of Physical Therapy, and the School of Recreation and Sport Sciences. In order to provide students with a variety of local clinical education opportunities, the schools operate the Speech and Hearing Clinic, Child Development Center, Nutrition Treatment Program, and Therapy Associates. The college has responsibility for campus recreation and administers the following facilities: Bird Arena, golf course, Aquatic Center, and the Ping Student Recreation Center. The university employee wellness program, WellWorks, is also administered by the college.

The College of Health and Human Services is committed to promoting professional and personal growth of students by providing interdisciplinary and multicultural academic, research, and service experiences in classrooms, laboratories, clinical, and community settings. The college integrates the participation and support of alumni in program development, implementation, and evaluation.

Through support of academic, scholarly, and service activities, the college promotes professional and personal growth of faculty and the expansion of knowledge in their respective disciplines. There is a commitment to provide a positive learning and work environment for students, faculty, and staff: an environment characterized by mutual respect and concern and one that is accessible to individuals with disabilities. The college actively seeks to develop cultural and ethnic diversity among students, faculty, and staff.

The college is dedicated to the development of the total student. Academic courses, recreational programs, and wellness activities are offered to the entire university community. The college further recognizes its responsibility to provide outreach programs that include continuing education for practicing professionals, as well as health and human services to the nearby community.

Schools/Majors and Degrees

The College of Health and Human Services consists of six academic schools offering the following curricula:

School of Health Sciences

Major awarding the Bachelor of Science in Environmental Health (B.S.E.H.)

Environmental Health Science

Majors awarding the Bachelor of Science in Health (B.S.H.)

Community Health Services

Health Services Administration

Long-Term Health Care Administration

Major awarding the Bachelor of Science in Industrial Hygiene (B.S.I.H.)

Industrial Hygiene

School of Hearing and Speech Sciences

Major awarding the Bachelor of Science in Hearing and Speech Sciences (B.S.H.S.S.)

Hearing and Speech Sciences

School of Human and Consumer Sciences

Majors awarding the Bachelor of Science in Human and Consumer Sciences (B.S.H.C.S.)

Dietetics

Early Childhood Education (teaching license)

Family and Consumer Sciences Education (teaching license)

Family Studies

Food Service Management

Interior Design

Nutrition with Science

Retail Merchandising

In addition, the School of Human and Consumer Sciences offers the following minors:

Basic and Applied Nutrition
Retail Merchandising

Validation that can be added to existing kindergarten-primary, elementary, home economics, or special education teaching certificate:

Early Childhood

School of Nursing

Major awarding the Bachelor of Science in Nursing (B.S.N.) to registered nurses (RNs):

Baccalaureate Nursing

In addition, the School of Nursing offers the following teaching license for registered nurses (RNs):

School Nurse

School of Physical Therapy

The School of Physical Therapy does not award a bachelor's degree, but offers an entry-level master's physical therapy curriculum, which leads to the Master of Physical Therapy (M.P.T.). Complete description of the program is available in the *Graduate Catalog*, while admission procedures are described later in this section.

School of Recreation and Sport Sciences

Majors awarding the Bachelor of Science in Athletic Training (B.S.A.T.):

Athletic Training with Exercise Physiology

Major awarding the Bachelor of Science in Physical Education (B.S.P.E.):

Physical Education (teaching license)

Majors awarding the Bachelor of Science in Recreation Studies (B.S.R.S.):

Adventure Recreation
Outdoor Education and Camping
Recreation Management
Therapeutic Recreation

Majors awarding the Bachelor of Science in Sport Sciences (B.S.Sp.S.):

Exercise Physiology
Sport Industry

In addition, the School of Recreation and Sport Sciences offers the following minor:

Recreation

Endorsement that can be added to existing physical education teaching certificate or license:

Adapted Physical Education

In conjunction with the College of Arts and Sciences, the college offers a Gerontology Certificate.

Master's and doctoral degree programs are offered by the School of Hearing and Speech Sciences. Master's degree programs also are available in the Schools of Health Sciences, Human and Consumer Sciences, Physical Therapy, and Recreation and Sport Sciences. All programs are described in detail in the *Ohio University Graduate Catalog*.

Admission Requirements

Freshman admission to most of the majors offered by the college is open. The college does have several selective admission programs. If you are interested in athletic training, in addition to being admitted to the university, you must apply and be accepted into this major. The baccalaureate nursing program and school nurse teaching license are available only to registered nurses (RNs). You may be eligible to apply to the entry-level master's program in the School of Physical Therapy if you have completed at least your junior year in college, plus specific prerequisite courses with a minimum g.p.a. of 3.0 on a 4.0 scale, and, if accepted, be able to complete a baccalaureate degree by the end of your first year in physical therapy. If you are interested in any of these programs, please read the more detailed description of the specific requirements and application process described later in this section of the catalog.

If you are already in an academic college at Ohio University and wish to transfer into any program within the College of Health and Human Services (except for athletic training, nursing, or physical therapy, which have selective admissions), you must have a minimum accumulative g.p.a. of 2.0.

Scholarship Opportunities

Scholarships sponsored by the six schools and the College of Health and Human Services for qualified undergraduate students are available on an annual basis. Inquiries about the scholarship program should be directed to the scholarship chair of each school or the dean's office.

Academic and Other Requirements

All majors within the School of Human and Consumer Sciences, as well as physical education in the School of Recreation and Sport Sciences, have requirements that you must meet in order to remain active or progress in the major. Further information about these specific requirements can be found under each program's description later in this section.

If you plan to pursue a teaching license, you must meet the criteria for selective admission to and retention in teacher education as established by the College of Education (see "Admission to Professional Education" in the College of Education section) even though you are a major within the College of Health and Human Services.

The college's policy on internships, practica, field experiences, and student teaching requires that you be registered for the experience in the quarter that you are actually fulfilling the requirements for the course. The only exception to this requirement is an experience that takes place over winter break, in which case you may register for the course during either fall or winter quarter.

Advising

Upon entering the College of Health and Human Services you are assigned a major advisor who is a faculty member in the school in which your major program is contained. Faculty advisors assist you in the preparation of schedules and are available to discuss academic and career related topics. However, you are responsible for completing all university, college, and school requirements for the degree.

To assist you in keeping track of your progress in completing degree requirements, you will receive a DARS (Degree Audit Reporting System) report each quarter during preregistration. This report lists the requirements for your degree and your progress in completing them. If you are interested in determining your progress for other or additional majors, the Student Services Office within the dean's office can provide you with a "what if" DARS report.

Graduation Requirements

Each candidate for a bachelor's degree in the College of Health and Human Services must earn at least 192 quarter hours of acceptable credit with a minimum accumulative g.p.a. of 2.0 and a minimum g.p.a. of 2.0 in the major; complete the major program requirements; and fulfill the university's General Education Requirements. If you are pursuing a teaching license, you must have a minimum accumulative grade point average of 2.75 and a g.p.a. of 2.75 in each teaching field you are pursuing.

Professional Certification or Licensure

A number of the majors within the college will provide you with the opportunity to sit for either a certification or licensure exam. A teaching license will be awarded upon conferral of your degree if you successfully complete the major requirements, including those specified under the College of Education regarding admission to and progress in teacher education, early childhood education, family and consumer sciences education, and physical education, plus pass the Praxis II exam. If you are majoring in hearing and speech sciences, you can begin to pursue a teaching license as an undergraduate, but the requirements for licensure are completed in the master's program.

You will be eligible to sit for the appropriate licensing or certification exam if you successfully complete any of the following majors: athletic training with exercise physiology, long-term health care administration, and physical therapy. If you complete your internship in therapeutic recreation under a NTRS certified professional, and complete all requirements for the major, you are eligible to sit for the certification exam. Completing either the dietetics or nutrition with science options fulfills the academic component for becoming a registered dietitian, but not the internship component. The environmental health science major fulfills the educational requirements for registration as a sanitarian. These and other specific program requirements can be found in the description of each school on the following pages.

Special Information for Students

The College of Health and Human Services provides opportunities for educational, leadership, and professional development through its honoraries and professional organizations.

Phi Upsilon Omicron, the national family and consumer sciences honorary, has an active chapter in the School of Human and Consumer Sciences. Nursing students can be elected to Sigma Theta Tau, the international nursing honorary.

You are encouraged to participate in student professional organizations within your major or area of interest. Recognized professional organizations within the college include:

School of Health Sciences

Community Health Club
Future Health Care Administrators
Industrial Hygiene Student Association
Student Environmental Health Association
Student Chapter American College of Healthcare Executives

School of Hearing and Speech Sciences

National Student Speech-Language and Hearing Association

School of Human and Consumer Sciences

Fashion Associates
Future Dietitians Club
OU Chapter of American Association of Family and Consumer Sciences
OU Chapter of the American Society of Interior Designers
Student Early Childhood Organization

School of Recreation and Sport Sciences

Exercise Physiology Club
Physical Education Club
Recreation Club
Sports Marketing Club
Sports Medicine Club
Therapeutic Recreation Club

Gerontology Certificate Program

Through its Institute for the College of Health and Human Services, the College of Health and Human Services and the College of Arts and Science jointly sponsor the undergraduate Gerontology Certificate Program for students in any major program who want to gain knowledge and skills for a career that involves working with the elderly.

Certificate Requirements

You must successfully complete at least 28 credit hours from the following list of courses including an approved practicum, field experience, or internship. The required gerontology-oriented practicum, field experience, or internship cannot contribute more than 5 credit hours to the total 28 hours required for the certificate.

HCCF 380	Death and Dying	4
HCCF 462F	The Aged Family	3
HLTH 225	Long-Term Care Admin. I	4
HLTH 325	Long-Term Care Admin. II	4
HLTH 413	Health Aspects of Aging	4
HS 491	Special Topics in Gerontology I-4	
HSS 300	Communication Disorders in the Elderly	4
NRSE 491B	Gerontic Nursing	1-3
PESS 421	Principles of Aging & Physical Activity	4
PHIL 480	Thinking About Death	4
PSY 374	Psychology of Adulthood and Aging	4
SOC 334	Sociology of Aging	4
SW 340	Mental Health and Social Work	4
SW 381	Counseling Older Adults	4
SW 395	Aging in American Society	4

Other courses may be substituted with prior approval of program coordinator

Practicum/Field Experience Options

HCCF 499	Field Experience in Family Studies	12
HLTH 364	Community Health Field Experience	1-5
HLTH 464	Community Health Services Practicum	15
HLTH 480	Practicum in Health Admin.	10
HLTH 481	Internship in Health Admin.	15
SW 490A	Social Work Practice	8

Other courses with prior approval of program coordinator

If you are interested in the certificate you can obtain an application form from your college office. After completing the application and obtaining the coordinator's signature, turn the form in to your college office. Each quarter on your DARS (Degree Audit Reporting System) Report, you will be able to track your progress in the certificate program. The Gerontology Certificate will be awarded upon graduation if you have successfully completed the certificate requirements, and a notation of the certificate will be recorded on your permanent record (transcript). For more information on course offerings or other concerns, contact the coordinator of the Gerontology Certificate Program.

School of Health Sciences

Paul Fitzgerald, Director

The School of Health Sciences is designed to serve students with diverse career interests: community health services, environmental and occupational health and safety, and health administration. Basic preparation for these careers is accomplished by completing the professional curricula that lead to a Bachelor of Science in Environmental Health, Bachelor of Science in Health, or Bachelor of Science in Industrial Hygiene.

The opportunities vary for professional preparation in the school. Community health services prepares students for entry-level staff and management positions in public-health and health-promotion agencies, social task force agencies, and other noninstitutional health agencies. Students are taught to develop programs for assessing and planning health programs according to the needs of the community being served.

Environmental and occupational health and safety students focus their studies on factors that may cause or contribute to impaired health of individuals in any environmental setting. The industrial hygiene option deals with industrial hazards and how they affect individuals in the workplace. The environmental health option prepares students for a career in one of the many fields of public health. It also qualifies students to sit for the examination to obtain professional registration as a sanitarian.

Health administration programs focus on preparing students for entry-level management positions in hospitals, long-term care facilities, and other health delivery systems. Blending business techniques and tools with health care applications and principles, students are taught to deal with complex organizational structures and associated business complexities. Students electing to specialize in long-term care administration receive an undergraduate Gerontology Certificate and are eligible, upon completion of the degree, to sit for the Ohio and National Nursing Home Administrator's licensure examination.

Most programs provide either practica or internships in order to provide students with practical experiences complementary to their academic coursework.

Note: Most courses offered through the School of Health Sciences can be retaken up to two times (i.e., one initial registration and two retakes). Variable credit courses usually cannot be retaken (i.e., with the possibility of the initial grade no longer being figured in the accumulative grade point calculation) but can be repeated for credit to count toward your degree.

Community Health Services

Major code BS8105

This program provides you with background courses and field experiences that qualify you for positions in community health. A Bachelor of Science in Health will be awarded when you have completed the prescribed course of study.

Health Science Core

BIOS 103 or BIOS 170	Human Biology Intro to Zoology	5
CS 120 or MIS 201	Computer Science Survey Intro to Microcomputers	4 3
HLTH 202	Health Sciences and Lifestyle Choices	4
HLTH 204	Alcohol, Tobacco, and Other Drugs	4
HLTH 217	Intro to Health Care Organizations	4
HLTH 230	Medical Terminology for Health Admin.	4

Required Related Courses

EDCE 410	Human Relations	3
EH 260	Intro to Environ. Health and Safety	4
HCCF 160 or PSY 273	Intro to Child Dev. Child and Adol. Psych.	4
HCFN 12B	Intro to Nutrition	4
HLTH 205	AIDS Education & Prevention	4
HLTH 330	Community Health Epidemiology	4
HLTH 364	Community Health Field Experience	2-5
HLTH 370J	Writing for Health Science	4
HLTH 379	Teaching of Health	5
HLTH 390	Community Health	4
HLTH 410	Health Issues: U.S. Underserved Populations	4
HLTH 412	Intl. Health Programming	4
HLTH 425	Controlling Stress and Tension	4
HLTH 427	Health of Women	4
HLTH 464	Community Health Services Practicum	15
HLTH 489	Community Health Planning and Admin.	4
HLTH 495	School Health Problems	5
INCO 205	Group Discussion	4
PSY 101	General Psychology	5
PSY 120 or PSY 221	Elem. Statistical Reasoning Statistics for Beh. Sciences	4 5
PSY 275	Educational Psychology	4

Plus 15-20 hours from INCO, MGT, HLTH, PSY, SOC, or PESS at the 200 level or above.

Environmental and Occupational Health and Safety

Environmental and occupational health and safety professionals are trained to the evaluation and control environmental factors that may cause or contribute to health problems. Two distinct majors are available.

The environmental health science option prepares you for a career in one of the many fields of public health. It also fulfills the educational requirements for registration as a sanitarian and for admission to a graduate school of public health. The Bachelor of Science in Environmental Health will be awarded upon completion of the prescribed course of study.

The industrial hygiene option prepares you for a career as an industrial hygienist. An industrial hygienist is concerned with evaluating and controlling workplace environmental exposures that affect workers' and the public's health. Industrial hygiene is one of the leading environmental professions. After graduation you will be competitive in an expanding job market with major corporations, consulting firms, insurance agencies, and government agencies. In addition, the program will prepare you for admission to graduate school in industrial hygiene, environmental science, and public health. When you have completed the prescribed course of study, you will be awarded the Bachelor of Science in Industrial Hygiene.

Environmental Health Science

Major code BS6260

Environmental and Occupational Health and Safety Core

BIOS 103 or BIOS 170	Human Biology Intro to Zoology	5
BIOS 302	Human Anatomy for Nonmajors	6
or BIOS 301	Human Anatomy	
BUSL 370	Environmental Law	4
CHEM 151, 152, 153	Fund. of Chemistry	15
CHEM 301, 302	Organic Chemistry	6
CS 120 or MIS 201	Computer Science Survey Intro to Microcomputers	4 3
ECON 103	Prin. of Microeconomics	4
HLTH 330	Community Health Epidemiology	4
or MICR 418	Epidemiology	
INCO 103	Fund. of Public Speaking	4
MICR 211, 212	Environ. Microbiology and Lab	6
PHIL 130	Intro to Ethics	4
PHYS 201, 202	Intro to Physics	10
PSY 101	General Psychology	5
PSY 120 or PSY 221	Elem. Statistical Reasoning Statistics for Beh. Sciences	4 5
SOC 101	Intro to Sociology	5

Required Professional Courses

EH 260	Intro to Environ. Health and Safety	4
EH 275	Env. and Occup. Health and Safety Regulations	4
EH 310	Water Supply and Wastewater Environ. Health Practice	4
EH 312	Solid and Hazardous Waste Management	4
EH 330	Food Quality Control	4
EH 430	Vector Control and Pesticide Use	4
EH 440	Air Quality and Pollution Control	4
EH 450	Institutional Environ. Health Practice	4
EH 455	Recreational Environ. Health Practice	4
EH 457	Environ. Health Planning and Program Admin.	4
EH 464	Environ. Health Practicum	15
IH 200	Intro to Industrial Hygiene, Occup. Safety, and Health	4
IH 400	Industrial Hygiene Sampling and Analysis	5
IH 401	Toxicological Effects of Hazardous Materials	4
IH 415	Intro to Radiological Health	5

Even if your mathematics placement exam result is MATH 263 (which means that you have demonstrated quantitative skills sufficient to met the Tier I requirement), you must complete one of the following:

MATH 115	Precalculus	5
MATH 163A	Intro to Calculus	4
MATH 263A	Calculus	4

Required Professional Courses

CH E 448	Safety in the Process Ind.	3
CHEM 241, 242	Quantitative Analysis and Lab	5
CHEM 325	Instrumental Methods of Analysis	4
CHEM 330	Intro to Toxicology	4
ECON 104	Prin. of Macroeconomics	4
EH 260	Intro to Environ. Health and Safety	4
EH 275	Env. and Occup. Health and Safety Regulations	4
EH 310	Water Supply and Wastewater Environ. Health Practice	4
EH 312	Solid and Hazardous Waste Management	4
EH 440	Air Quality and Pollution Control	4
HLTH 230	Medical Terminology for Health Admin.	4
IH 200	Intro to Ind. Hygiene, Occup. Safety and Health	4
IH 400	Industrial Hygiene Sampling and Analysis	5
IH 401	Toxicological Effects of Hazardous Materials	4
IH 405	Ventilation for Contaminant Control	4
IH 410	Physical Hazards: Evaluation and Control	4
IH 415	Intro to Radiological Health	5
IH 420	Hazardous Material: Mgt. and Control	4
MATH 163A&B or MATH 263A&B	Intro to Calculus Calculus	7 8
MGT 200 or MGT 202	Intro to Management Management	4

Industrial Hygiene**Major code BS3309****Environmental and Occupational Health and Safety Core**

BIOS 103 or BIOS 170	Human Biology Intro to Zoology	5
BIOS 302 or BIOS 301	Human Anatomy for Nonmajors Human Anatomy	6
BUSL 370	Environmental Law	4
CHEM 151, 152, 153	Fund. of Chemistry	15
CHEM 301, 302	Organic Chemistry	6
CS 120 or MIS 201	Computer Science Survey Intro to Microcomputers	4 3
ECON 103	Prin. of Microeconomics	4
HLTH 330 or MICR 418	Community Health Epidemiology Epidemiology	4
INCO 103	Fund. of Public Speaking	4
MICR 211, 212	Environ. Microbiology and Lab	6
PHIL 130	Intro to Ethics	4
PHYS 201, 202	Intro to Physics	10
PSY 101	General Psychology	5
PSY 120 or PSY 221	Elem. Statistical Reasoning Statistics for Beh. Sciences	4 5
SOC 101	Intro to Sociology	5

Health Administration

Health administration offers two options: health services administration and long-term health care administration. The health services administration option prepares you for entry-level management and staff positions in all sectors of the health care industry. You are prepared for positions in acute, subacute, and ambulatory care facilities such as hospitals, clinics, home health agencies, managed-care organizations, health maintenance organizations, and other emerging health delivery systems.

The long-term health care administration option prepares you for a career in the management of nursing and other long-term care facilities. It qualifies you to take the licensure examination of the Ohio Department of Health Board of Examiners for Nursing Home Administration, as well as the National Licensure Examination.

At the completion of either course of study, you will be awarded a Bachelor of Science in Health. Upon completion of the long-term health care administration option, you will also qualify for an Ohio University undergraduate Gerontology Certificate (see "Gerontology" at the beginning of the College of Health and Human Services section).

Health Services Administration**Major code BS8119****Health Administration Core**

BIOS 103 or BIOS 170	Human Biology Intro to Zoology	5
CS 120 or MIS 201	Computer Science Survey Intro to Microcomputers	4 3
EH 260	Intro to Environ. Health and Safety	4
HLTH 202	Health Sciences and Lifestyle Choices	4
HLTH 204	Alcohol, Tobacco, and Other Drugs	4
HLTH 217	Intro to Health Care Orgs.	4
HLTH 230	Medical Terminology for Health Admin.	4
HLTH 316	Human Resource Mgt. and Trng. in Health Care	4
HLTH 340	Contemporary Problems in Health Care Org.	4
HLTH 421	Financial Administration of Health Facilities	4
HLTH 422	Reimbursement Payment Systems in Health Care	4
HLTH 480	Practicum in Health Admin.	10
HLTH 481	Internship in Health Admin.	15

Required Professional Courses

ACCT 101	Financial Accounting	4
ECON 103	Prin. of Microeconomics	4
HLTH 330	Community Health Epidemiology	4
HLTH 335	Admin. of Acute Care Facilities	4
INCO 103	Public Speaking	4
MGT 200 or MGT 202	Intro to Management Management	4

Plus 20 hrs from ACCT 102 or courses at the 200 level or above in ACCT, BUSL, EH, FIN, HRM, HLTH, IH, INCO, MGT, MKT.

Long-Term Health Care Administration**Major code BS6836****Health Administration Core**

BIOS 103 or BIOS 170	Human Biology Intro to Zoology	5
CS 120 or MIS 201	Computer Science Survey Intro to Microcomputers	4 3
EH 260	Intro to Environ. Health and Safety	4
HLTH 202	Health Sciences and Lifestyle Choices	4
HLTH 204	Alcohol, Tobacco, and Other Drugs	4
HLTH 217	Intro to Health Care Organizations	4
HLTH 230	Medical Terminology for Health Admin	4
HLTH 316	Human Resource Mgt. and Training in Health Care	4
HLTH 340	Contemporary Problems in Health Care Org.	4

HLTH 421	Financial Administration of Health Facilities	4
HLTH 422	Reimbursement Payment Systems in Health Care	4
HLTH 480	Practicum in Health Admin.	10
HLTH 481	Internship in Health Admin.	15

Required Professional Courses

ACCT 101	Financial Accounting	4
ECON 103	Principles of Microeconomics	4
EDCE 410	Human Relations	3
HCCF 380	Death and Dying	4
HCFN 128	Intro to Nutrition	4
HLTH 225	Long-Term Care Admin. I	4
HLTH 325	Long-Term Care Admin. II	4
HLTH 330	Community Health Epidemiology	4
HLTH 405	Long-Term Care Admin. III	4
HLTH 413	Health Aspects of Aging	4
MGT 200 or MGT 202	Intro to Management Management	4
PSY 101	General Psychology	5
PSY 374	Psychology of Adulthood and Aging	4
SW 101	Intro to Social Welfare and Social Work	3

Select one of the following four:

INCO 301	Empirical Research Applications	5
PSY 120	Elem. Statistical Reasoning	4
PSY 221	Statistics for Beh. Sciences	5
SOC 351	Elementary Research Techniques	4

Select one of the following four:

SW 381	Counseling Older Adults	4
SW 395	Aging in the Welfare State	4
HS5 300	Communication Disorders in the Elderly	4
PESS 421	Principles of Aging & Physical Activity	3

Plus 9 hours from HCCF, PSY, SOC, or SW at the 300 level or above

School of Hearing and Speech Sciences

Norman Garber, Director

The school grants a B.S. in Hearing and Speech Sciences, and M.A. and Ph.D. degrees in audiology and speech-language pathology. The master's programs in speech-language pathology and audiology are accredited by the American Board of Examiners in Speech Pathology and Audiology of the American Speech Language-Hearing Association.

Our nationally recognized undergraduate preprofessional program seeks to ensure a well-rounded education, which develops both the scientific and humanistic aspects of an Ohio University graduate who will function in a global marketplace in the 21st century. The curriculum integrates a sequence of arts and sciences coursework with courses designed to provide a sound understanding of normal communication processes and an introduction to speech-language pathology and audiology. A certificate program in gerontology and minors in psychology and linguistics are options available that broaden perspectives and support diverse career choices. Students are provided the fundamentals necessary for graduate study, which is required for certification and employment as an audiologist or speech-language pathologist. A wide variety of career options is available in audiology and speech-language pathology, and there is a high demand for these services.

The School of Hearing and Speech Sciences is large enough to offer the resources of a major university—including diversity of faculty and coursework—but small enough to provide individual attention to students when they are in need of help with assignments or professional guidance. The program encourages students to think clearly and objectively, preparing them to solve problems as professionals through effective interpersonal and literacy skills. Advisors are school faculty who guide students regularly in curriculum planning and career counseling.

All undergraduate students desiring to major in Hearing and Speech should see the undergraduate coordinator to establish a file and obtain an advisor. You are expected to see your advisor during each preregistration period.

Note: Most undergraduate courses offered through the School of Hearing and Speech Sciences can be retaken one time (i.e., one initial registration and one retake). Variable credit courses usually cannot be retaken (i.e., with the possibility of the initial grade no longer being figured in the accumulative grade point calculation) but can be repeated for credit to count toward your degree.

Hearing and Speech Sciences Major code BS5305

Major Requirements

HSS 108	Intro to Communication Disorders	5
HSS 208	Phonetics	5
HSS 240	Professional Orientation	3
HSS 252	Speech Science	4
HSS 253	Hearing Science	4
HSS 310	Language Development	5
HSS 313	Anatomy and Neurology	4
HSS 341	Pre-Professional Service I	2
HSS 380	Basic Audiology	5
HSS 418	Articulation Disorders	5
HSS 419	Organic and Structural Disorders	5
HSS 442	Pre-Professional Service II	3
HSS 444	Disorders of Language	5
HSS 471	Aural Rehabilitation	5

Required Related Courses

INCO 101	Fund. of Human Communication	4
INCO 103	Fund. of Public Speaking	4
PSY 101	General Psychology	5
PSY 120 or PSY 221	Elem. Stat. Reasoning Statistics for Behav. Sci.	4 5
PHIL 101 or PHIL 120 or PHIL 130	Fund. of Philosophy Principles of Reasoning Intro to Ethics	5 4 4
PESS 227 or PESS 228	First Aid CPR	3 1
PSY 275	Educational Psychology	4

Biological and Physical Science

BIOL 101 or BIOS 103 or BIOS 170	Principles of Biology Human Biology Intro to Zoology	5
PHYS 201 or PSC 101L or PSC 105L	Intro to Physics Physical World Color, Light, and Sound	5

Computer Literacy

CS 120 or MIS 201	Computer Literacy Intro to Microcomputers	4 3
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Cultural Diversity

ANTH 101 or INCO 410 or LING 275	Intro to Cultural Anthro. Cross-Cultural Commun. Intro to Lang. and Culture	5 4 4
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Foreign Language

HSS 379	Basic Manual Commun.	4
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One quarter of foreign language if you have had two or more years of foreign language in high school **or** two quarters of foreign language if you have had less than two years of foreign language in high school

Life Span

HCCF 160	Intro to Child Development	4
or PSY 273	Child and Adolescent Psychology	
HSS 300	Comm. Disorders of the Elderly	4
or PSY 374	Psychology of Adulthood and Aging	
or SW 381	Counseling Older Adults	

Linguistics

LING 350	Intro to Gen. Linguistics	5
or LING 351	Fund. of Gen. Linguistics	
LING 280	Language in America	4
or PSY 307	Psycholinguistics	
or any LING course above 351		

Special Needs

EDSP 271	Intro to Educ. of Exceptional Children and Youth	4
or PSY 332	Abnormal Psychology	
or PSY 376	Psychological Disorders of Childhood	

Additional Requirement for Teacher Licensure

EDSP 474	Intro to Specific Learning Disabilities	4
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School of Human and Consumer Sciences

V. Ann Paulins, Director

The School of Human and Consumer Sciences, accredited by the American Association of Family and Consumer Sciences, offers programs in child and family studies, food and nutrition, interior design, and retail merchandising. There are nine professional curricula leading to the Bachelor of Science in Human and Consumer Sciences. In addition, University College and the school offer a two-year curriculum in child development leading to the A.A. degree. Graduate work leading to the M.S. degree also is offered (see the *Graduate Catalog*).

The school provides a variety of activities and experiences, including the Child Development Center and the Nutrition Treatment Program.

Child Development Center

The Ohio University Child Development Center provides clinical opportunities for Ohio University students from the Schools of Human and Consumer Sciences, Hearing and Speech Sciences, and Recreation and Sport Sciences, as well as the Department of Psychology, the College of Education, and other related departments throughout the university.

The philosophy of the Child Development Center is based on the belief that children best acquire knowledge when they are in an enriched environment that is challenging, stimulating, and nurturing. The primary commitment of the Child Development Center is to help children realize their full potential in emotional, social, cognitive, and physical development.

A second responsibility of the Child Development Center is to prepare early childhood educators. The center is also committed to research that furthers knowledge of the growth and development of children, family relations, and educational curricula.

Finally, the center acts to support families in the Athens community, offering both developmental child care and professional knowledge of children's growth, development, and learning.

Nutrition Treatment Program

This program has four main objectives: (1) to provide learning opportunities for senior and master's-level dietetic majors; (2) to offer a health care service to community residents; (3) to provide outreach educational efforts to improve the nutrition awareness of the community; and (4) to foster research designed to promote client understanding and compliance and to maximize students' decision-making and problem-solving skills.

The American Dietetic Association–approved program in didactic dietetic education is charged with providing students with learning based on practical experience. Through working with clients, students gain experience in nutrition assessment, developing a plan of care to meet client needs, implementing and evaluating that plan, and documenting progress in the medical record. Nutrition counseling allows dietetic majors to synthesize and apply previously acquired knowledge in a practical ambulatory-care setting under the guidance of a registered and licensed dietitian.

The Nutrition Treatment Program provides a service to area residents who show some degree of cardiovascular or other disease risk. The goal is to help at-risk individuals prevent or attenuate disease through adoption of eating behaviors appropriate to their individual health needs and lifestyle.

The Nutrition Treatment Program provides the community with educational programming on issues of current nutritional concern through newsletters, oral presentations to campus and community groups, panel discussions, and radio and television features. The goal is to increase public awareness, knowledge, and adoption of recommended nutritional practices.

The Nutrition Treatment Program fosters research designed to serve clients and encourages research that helps future dietetic professionals develop conceptual and decision-making skills.

Degree Requirements for All Majors

Candidates for the Bachelor of Science in Human and Consumer Sciences must fulfill the university General Education Requirements and complete a minimum of 192 hours (see "General Education Requirements" in the Graduation Requirements—University Wide section). A g.p.a. of 2.0 (C) is required in all hours attempted (both overall and in your major) but includes only final hours and grade points on retaken courses. Some programs have additional criteria that must be met. In addition, you may be required to have a g.p.a. higher than 2.0 (C) to obtain certain field experiences or internships, to be admitted to teacher education, or to be admitted to graduate school or student teaching.

Note: most undergraduate courses offered through the School of Human and Consumer Sciences can be retaken up to two times (i.e., one initial registration and two retakes). Variable credit courses usually cannot be retaken (i.e., with the possibility of the initial grade no longer being figured in the accumulative grade point calculation), but can be repeated for credit to count toward your degree.

Early Childhood Education

Major code BS6355

Early childhood education prepares you to teach children three years old through third grade. As a result of a change in teaching licensure requirements mandated by the state of Ohio effective September 1998 for implementation of new teaching licenses beginning September 2002, elementary education as a teaching certificate has been eliminated. You must now choose between obtaining licensure for either early childhood education (ages three through eight or prekindergarten through grade three) or middle childhood (ages eight through fourteen or grades four through nine).

In addition to being able to work with children ages three through third grade by majoring in early childhood education, you can also teach in nursery schools, child-care centers, and Head Start programs. You must meet the criteria for selective admission to and retention in teacher education as established by the College of Education (see "Admission to Professional Education" in the College of Education section), including a 2.75 g.p.a. in your major, in required professional education courses, and overall. To graduate in this major, you must complete all College of Health and Human Services and College of Education requirements. Upon completion of the program and after passing the Praxis II exam, you are eligible for an Ohio provisional teaching license in early childhood education.

Required General Education

Ohio requirements for teacher licensure state that you must complete a general studies program that include the arts, communications, history, literature, mathematics, philosophy, sciences and the social sciences. In addition, the general studies curriculum should incorporate multicultural and global perspectives. You should work closely with your faculty advisor to select courses that would fulfill both Ohio University General Education Requirements (see the Graduation Requirements section) and the requirements for teacher licensure.

Specific Tier I quantitative course requirements that you must fulfill are:

MATH 120*, 121, 122 Elementary Topics in Math 10

*NOTE: These math courses are recommended; however, any math courses number 120 or above (except MATH 151) and totaling 10 hours will be acceptable.

Specific Tier II course requirements that you must fulfill are:

Social Sciences Requirement

PSY 101 General Psychology 5

Select one course from the following American History or Political Science courses:

HIST 211 American History to 1828 4

HIST 212 History of the United States, 1828-1900 4

HIST 213 History of the United States Since 1990 4

POLS 101 American National Government 4

POLS 102 Issues in American Politics 4

POLS 103 The United States in World Affairs 4

Biological Science Requirement

BIOS 103 or BIOL 101	Human Biology Principles of Biology	5
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Earth Science Requirement

GEOG 101 or GEOL 101	Physical Geography Introduction to Geology	5
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Physical Science Requirement

PSC 100, PSC 140 or PSC 100D, PSC 140	Survey of Astronomy, Observational Astr. Lab Moons and Planets: The Solar System and Observational Astr. Lab	5
or PSC 101L or PSC 105L or PHYS 201	Physical World Color, Light, and Sound Intro to Physics	

In addition, you must complete INCO 103, Fundamentals of Public Speaking, before you can apply for admission into Professional Education in the College of Education.

Professional Early Childhood Requirements

You must earn at least a C (2.0) or better grade in all of the following courses, except HCCF 462A, HCCF 462B, or HCCF 462D.

HCCF 160	Intro to Child Development	4
HCCF 160A	Observing and Recording Children's Behavior	3
HCCF 170	Intro to Early Childhood Education	3
HCCF 260	Diversity in Early Childhood Education	3
HCCF 260L	Clinical: Diversity in Early Childhood Education	1
HCCF 361	Guidance and Classroom Mgt. in Early Childhood	3
HCCF 361L	Clinical: Guidance and Classroom Management in Early Childhood	1
HCCF 363	Creative Experiences in Early Childhood	4
HCCF 363L	Clinical: Creative Experiences in Early Childhood	1
HCCF 371	Family Development	3
HCCF 455	Curriculum and Teaching Strategies in Early Childhood	4
HCCF 455L	Clinical: Curriculum and Teaching Strategies in Early Childhood	2
HCCF 463	Administration in Early Childhood	3
HCCF 465	Parent Education	3
HCCF 467	Philosophy and Theories of Child Development	3

Select one of the following courses:

HCCF 462A	Pluralistic Life Styles	3
HCCF 462B	Parenthood	3
HCCF 462D	One-Parent Family	3

Related Requirements

HCFN 12B	Intro to Nutrition	4
NRSE 303	Health and Safety in Early Childhood	3
PESS 228	CPR	1
PESS 270	Teaching of Physical Education	3

Professional Education Requirements

EDCI 203	Technological Applications in Education	4
EDCI 220	Phonics and the Structure of Language	5
EDCI	Instructional Adaptations for Learners with Exceptionalities and Diverse Needs—Early Childhood	*
EDSP 271	Intro to the Ed. of Exceptional Children & Youth	4
EDEC	Intro to Integrated Curriculum and Clinical	*
EDEC	Literacy and Reading in the Early Childhood Classroom and Clinical	*
EDEC	Developmental Reading Through Literature and Clinical	*
EDEC	Mathematics in Early Childhood and Clinical	*
EDEC	Science in Early Childhood and Clinical	*
EDEC	Social Studies in Early Childhood and Clinical	*

*The above listed courses with no number are in the process of being approved. Check with your advisor for final course numbers, titles, and credit hours.

Student Teaching Experiences

EDPL*	Student Teaching in Early Childhood (K-3)	13
EDPL 465	Student Teaching Seminar	3
HCCF 474	Student Teaching in Early Childhood (Preschool)	6
HCCF*	Student Teaching Seminar in Early Childhood (Preschool)	3

*The above listed courses with no number are in the process of being approved. Check with your advisor for final course numbers, titles, and credit hours.

Early Childhood Validation

The validation can be attached to an already existing kindergarten-primary, elementary, home economics, or special education certificate after completing a student teaching experience and passing the Praxis II exam. The validation will provide an opportunity for individuals working in a related field to develop skills necessary for working with children birth to six years of age.

Note: This validation is for teachers who hold one of the requisite teaching certificates. All requirements listed must be completed on or before June 15, 2002. The last date that the Ohio Department of Education will grant this validation will be September 2, 2002.

HCCF 160 or PSY 273	Intro to Child Dev. Child & Adolescent Psych.	4
HCCF 361	Guidance and Classroom Management in Early Childhood	3
HCCF 361L	Clinical: Guidance and Classroom Management in Early Childhood	1
HCCF 363	Creative Experiences in Early Childhood	4
HCCF 363L	Clinical: Creative Experiences in Early Childhood	1

HCCF 364	Premath and Science Exp. w/Preschool Children	4	HCCF 371*	Family Development	3
HCCF 371	Family Development	3	HCCF 399*	Junior Practicum— Prof. Development	5
HCCF 463	Administration in Early Childhood	5	HCCF 452	Management for the Disabled Homemaker	4
HCCF 465	Parent Education	3	HCCF 462A	Pluralistic Lifestyles	3
HCCF 474	Student Teaching in Early Childhood (Preschool)	6	HCCF 462B or HCCF 462D	Parenthood The One-Parent Family	3
Choose two HCCF 462 courses:					
HCCF 462A	Pluralistic Life Styles	3	HCCF 462C	Middle Childhood	3
HCCF 462B	Parenthood	3	HCCF 462E	Youth Identity Crisis	3
HCCF 462D	One-Parent Family	3	HCCF 462F	The Aged Family	3
			HCCF 471*	Family Life Education	4
			HCFN 120*	Meal Management	3
			HCFN 128*	Intro. to Nutrition	4
			HCFN 222*	Food Science Principles	4
			HCGE 340*	Teaching of Family and Consumer Sciences Ed	4
			HCID 180*	Intro to Resid. Design	3
			HCRM 250*	The Consumer in Am. Soc.	4
			HCRM 283*	The Apparel Process	4
			HCRM 315	Textiles	4
			HLTH 202*	Health Sciences and Lifestyle Choices	4
			INCO 205 or EDCE 410	Group Discussion Human Relations	4 3

Family and Consumer Sciences Education

Major code BS6370

This program prepares you for teaching family and consumer sciences in grades four and beyond (middle school through high school/adult). You must meet the criteria for selective admission to and retention in teacher education established by the College of Education (see "Admission to Professional Education" in the College of Education section), including a 2.75 g.p.a. in your major, in required professional education courses, and overall. Upon completion of this program and after passing the Praxis II exam, you are eligible for the provisional Ohio vocational family and consumer sciences teaching license.

Required General Education

Ohio requirements for teacher licensure state that you must complete a general studies program that includes the arts, communications, history, literature, mathematics, philosophy, science, and the social sciences. In addition, the general studies curriculum should incorporate multicultural and global perspectives. You should work closely with your faculty advisor to select courses that will fulfill both Ohio University's General Education Requirements (see the Graduation Requirements section) and the requirements for teacher licensure.

Specific Tier II course requirements that you must fulfill are:

CHEM 121	Prin. of Chemistry	4
or CHEM 151	Fund. of Chemistry	5
PSY 101	General Psychology	5

In addition, you must complete INCO 103 Fundamentals of Public Speaking before you can apply for admission into Professional Education in the College of Education.

Major Requirements

HCCF 160*	Intro. to Child Devel.	4
HCCF 270*	Family Living	3
HCCF 299*	Sophomore Practicum— Prof. Assessment	3
HCCF 360	Human Sexuality	4
HCCF 361	Early Childhood Guidance and Management	4
HCCF 361L	Clinical/Early Childhood Guidance and Management	1

*C (2.0) or better required

Required Professional Education Courses

The following three courses are to be taken together as a block:

EDCI 200	Learning, Human Growth, and Development	6
EDCI 201	Characteristics of Learners with Exceptionalities	3
EDCI 202	Field Exp. in Typical and Exceptional Student Development	2
EDCI 203	Technological Applications in Education	4
EDCI 301	Educ. and Cultural Diversity	3
EDCI 371B	Instr. Adapt. for Learners with Exceptionalities and Diverse Needs	4
EDCI 400	School, Society, and the Professional Educator	4
EDPL 463, 464	Student Teaching	13
EDPL 465	Stu. Teaching Seminar	3
EDSE 350	Secondary School Planning and Instruction	4
EDSE 351	Instructional Process and Curriculum	5

Family Studies

Major code BS6351

The program prepares you to work with clients at various developmental stages—children, adolescents, adults, or seniors. It includes family and child development classes in the School of Human and Consumer Sciences, as well as courses relating to such issues as single parenthood, child guidance, and aging. Required related courses from other departments include psychology, sociology, and social work. A required junior practicum and quarter of full-time field experience in human services provide practical experience and the opportunity to take theory into practice.

If you choose to add the optional undergraduate Gerontology Certificate to your degree, you'll also gain in-depth knowledge and skills for careers that involve working with older adults.

Family studies graduates find employment in family services, children's services, adolescent group homes, rehabilitation centers, community programs for the developmentally disabled, senior citizen centers, family planning centers, mental health agencies, and probation services.

Major Requirements

HCCF 160* or PSY 273*	Intro to Child Dev. Child & Adolescent Psych.	4
HCCF 270	Family Living	3
HCCF 299*	Sophomore Practicum— Professional Assessment	3
HCCF 360	Human Sexuality	4
HCCF 361	Guidance and Classroom Man- agement in Early Childhood	3
HCCF 361L	Clinical: Guidance and Class- room Management in Early Childhood	1
HCCF 371*	Family Development	3
HCCF 380	Death and Dying	4
HCCF 399*	Junior Practicum— Professional Development	5
HCCF 400	Senior Seminar	3
HCCF 444 or HCCF 471	Adult Education Family Life Education	4
HCCF 452	Home Management for Disabled Homemakers	4
HCCF 462A	Pluralistic Life Styles	3
HCCF 462B	Parenthood	3
HCCF 462C	Middle Childhood	3
HCCF 462D	One-Parent Family	3
HCCF 462E	Youth Identity Crisis	3
HCCF 462F	The Aged Family	3
HCCF 499*	Field Experience— Family Studies	12

Required Related Courses

EDCE 410	Human Relations	3
HCFN 128	Intro to Nutrition	4
HCID 180	Intro to Residential Design	3
HCRM 250	Consumer in Amer. Society	4
CS 120 or MIS 201	Computer Science Survey Intro to Microcomputers	4 3

MGT 200 or MGT 202	Intro to Management Management	4
PESS 227	First Aid	3
PSY 101	General Psychology	5
PSY 120	Elem. Statistical Reasoning	4
PSY 332 or PSY 376	Abnormal Psychology Psychological Disorders of Childhood	4
PSY 233	Psychology of Personality	4
SOC 101	Intro to Sociology	5
SOC	Any 200-level	4
SOC 361	Deviant Behavior	4
SW 101	Intro to Social Welfare and Social Work	3
SW 290	Social Welfare as an Institution	4
Select one of the following SOC courses:		
SOC 315	Individual in Mass Society	4
SOC 334	Sociology of Aging	4
SOC 363	Juvenile Delinquency	4
SOC 365	Sociology of Mental Illness	4
SOC 414	Contemporary Social Movements	4
SOC 416	Society and the Individual	4
SOC 467	Violence Against Women	4

Select two of the following SW courses:

SW 380	Child Abuse and Neglect	4
SW 382	Understanding Alcohol Problems and Alcoholism	4
SW 383	Intro to Social Work Practice Methods	4
SW 384	Social Work Law	4
SW 390	Social Policy	4

* C (2.0) or better required

Food and Nutrition

Program Standards

To remain active in any program option listed as Food and Nutrition, you must meet the following criteria:

1 Maintain overall g.p.a. of 2.0 (C) or better in all hours attempted at Ohio University.

2 Earn at least a C (2.0) or better in each course listed under Major Requirements and Related Requirements (both dietetics and nutrition with science majors).

or

Earn at least a 2.0 (C) in each course listed under Major Requirements (food service management majors).

You must successfully earn a C (2.0) in all required HCFN courses by the end of the third enrollment in each course. Other schools and departments may also limit the number of times you may retake a course. If, after your second enrollment in a HCFN course, you have not earned a C (2.0) or better, you will receive a letter from the food and nutrition coordinator informing you that you must obtain a satisfactory grade at the end of the next enrollment in that course or you will be dropped from the major.

Note: If you are applying for a post-graduation internship or preprofessional practice program, you should be aware that they generally require a minimum accumulative g.p.a. of 3.0 (B) or higher. Completing the graduation requirements of Ohio University and meeting requirements of the Food and Nutrition's American Dietetic Association (ADA) Approved Program does not guarantee that you will be accepted into post-baccalaureate programs for professional experience. You must apply to and be granted acceptance into such programs to pursue the experiential component toward becoming a Registered Dietitian (RD).

Dietetics

Major code BS6360

This didactic program in dietetics meets American Dietetic Association academic requirements, qualifying you to apply for a Dietetic Internship or Approved Pre-Professional Practice Program (AP4) in dietetics.

Major Requirements

HCFN 120*	Meal Management	3
HCFN 128	Intro to Nutrition	4
HCFN 222	Food Science and Prin.	4
HCFN 299	Sophomore Practicum—Professional Awareness	1
HCFN 334	Quantity Food Production	4
HCFN 335	Food Service Purchasing	4
HCFN 382	Intermediate Nutrition	4
HCFN 399A†	Field Experience	5
HCFN 400A	Senior Seminar	1
HCFN 422	Experimental Foods	4
HCFN 424	Nutrition Treatment in Outpatient Care	4
HCFN 428	Advanced Nutrition	4
HCFN 429	Community Nutrition	3
HCFN 430	Therapeutic Nutrition	4
HCFN 431	Studies of Science of Nutrition	1
HCFN 437	Food Service Systems I	5
HCFN 438	Food Service Systems II	4
HCFN 499A	Nutrition Counseling Practicum	3

*Must obtain a laboratory coat to be worn in foods labs (approx. \$30)

†Must secure liability insurance (approx. \$38)

Required Related Courses

ACCT 101	Financial Accounting	4
ANTH 101	Intro to Cultural Anthropology	5
BIOS 170, 171	Intro to Zoology	10
BIOS 300	Anatomy and Histology	6
BIOS 345	Human Physiology	4
BIOS 346	Human Physiology Lab	3
BIOS 445 or PE55 414	Physiology of Exercise Physiology of Exercise	4
BIOS 463	Cell Chemistry	4
CHEM 121, 122, 123 or CHEM 151, 152, 153	Principles of Chemistry Fund. of Chemistry	12 15

CHEM 301, 302	Organic Chemistry	6
CS 120 or MIS 201	Computer Science Survey Intro to Microcomputers	4 3
ECON 103	Principles of Microeconomics	4
ECON 104	Principles of Macroeconomics	4
HCCF 371	Family Development	3
HCRM 250 or HCID 180	Consumer in Amer. Society Intro to Residential Design	4 3
HRM 420	Human Resource Management	4
INCO 101 or INCO 103	Fund. of Human Communication Fund. of Public Speaking	4 4
JOUR 250	Advertising Principles	4
MGT 200 or MGT 202	Intro to Management Management	4
MICR 211, 212 or MICR 311	Environ. Microbiology and Lab General Microbiology	6 5
PSY 101	General Psychology	5
PSY 221	Statistics for Beh. Sciences	4
PSY 275	Educational Psychology	4

If your mathematics placement exam result is lower than MATH 263, you must complete one of the following:

MATH 113	Algebra	5
MATH 115	Precalculus	5
MATH 163A	Intro to Calculus	4
MATH 263A	Calculus	4

Food Service Management

Major code BS6361

This program, which has a built-in business minor, prepares you for a career in management and supervision in hotels, motels, restaurants, public schools, residence halls, and industry. It is strongly recommended that you have a part-time job in a hospitality establishment to be more marketable upon graduation.

Major Requirements

HCFN 110	Intro to Hospitality	4
HCFN 120*	Meal Management	3
HCFN 128	Intro to Nutrition	4
HCFN 222	Food Science and Prin.	4
HCFN 330	Food Sanitation and Safety	2
HCFN 334	Quantity Food Production	4
HCFN 335	Food Service Purchasing	4
HCFN 399B†	Field Experience	5
HCFN 400B	Senior Seminar	1
HCFN 437	Food Service Systems I	5
HCFN 438	Food Service Systems II	4
HCFN 439	International Cuisine	4
HCFN 440	Beverage Management	4
HCFN 498B	Food Service Professional Development	2
HCFN 499B	Food Service Practicum	3

*Must obtain a laboratory coat to be worn in foods labs (approx. \$30)

†Must secure liability insurance (approx. \$38)

Required Related Courses

ACCT 101	Financial Accounting	4
ACCT 102	Managerial Accounting	4
8USL 25S	Law and Society	4
CHEM 121	Principles of Chemistry	4
CS 120	Computer Science Survey	4
or MIS 201	Intro to Microcomputers	3
ECON 103	Prin. Microeconomics	4
ECON 104	Prin. Macroeconomics	4
ECON 381	Intro to Economic Statistics	4
or PSY 221	Statistics for Beh. Sciences	
HCCF 371	Family Development	3
HCRM 250	Consumer in Amer. Society	4
or HCID 180	Intro to Residential Design	3
HCID 200	Beginning Computer-Aided Design	2
HRM 420	Human Resource Management	4
HRM 425	Labor Relations	4
INCO 101	Fund. of Human Communication	4
or INCO 103	Fund. of Public Speaking	
JOUR 250	Advertising Principles	4
MGT 200	Intro to Management	4
or MGT 202	Management	
MIS 202	Business Information Systems	4
or OPN 310	Principles of Operations	
MKT 202	Marketing Principles	4
PSY 101	General Psychology	5
PSY 275	Educational Psychology	4
SOC 101	Intro to Sociology	5

Nutrition with Science**Major code BS6363**

This didactic program in dietetics meets American Dietetic Association academic requirements qualifying you for an internship or Approved Pre-Professional Practice Programs (AP4). It also provides a basis for graduate study and research in nutrition and/or biological sciences. Certain other preprofessional undergraduates with a strong interest in nutrition, such as those in premedicine, will find the program may satisfy requirements for admission to professional schools.

Major Requirements

HCFN 120*	Meal Management	3
HCFN 128	Intro to Nutrition	4
HCFN 222	Food Science and Prin.	4
HCFN 299	Sophomore Practicum—Professional Awareness	1
HCFN 334	Quantity Food Production	4
HCFN 335	Food Service Purchasing	4
HCFN 382	Intermediate Nutrition	4
HCFN 399A†	Field Experience	5
HCFN 400A	Senior Seminar	1
HCFN 422	Experimental Foods	4
HCFN 424	Nutrition Treatment in Outpatient Care	4

HCFN 428	Advanced Nutrition	4
HCFN 429	Community Nutrition	3
HCFN 430	Therapeutic Nutrition	4
HCFN 431	Studies of Science of Nutrition	1
HCFN 437	Food Service Systems I	5
HCFN 438	Food Service Systems II	4
HCFN 499A	Nutrition Counseling Pract.	3

*Must obtain a laboratory coat to be worn in foods labs (approx. \$30)

†Must secure liability insurance (approx. \$38)

Required Related Courses

ACCT 101	Financial Accounting	4
ANTH 101	Intro to Cultural Anthropology	5
BIOS 170, 171, 172, 173	Intro to Zoology	14
BIOS 300	Anatomy and Histology	6
or BIOS 303	Comparative Vertebrate Anatomy	5
BIOS 325	General Genetics	5
BIOS 342, 343	Principles of Physiology	6
or BIOS 345, 346	Human Phys. & Lab	7
BIOS 445	Physiology of Exercise	4
or PESS 414	Physiology of Exercise	
BIOS 446	Physiology of Exercise Lab	3
or PESS 415	Physiology of Exercise Lab	
BIOS 463	Cell Chemistry	4
BIOS 464	Physiological Chem. Lab	3
CHEM 151, 152, 153	Fund. of Chemistry	15
CHEM 301, 302	Organic Chemistry	6
CS 120	Computer Science Survey	4
or MIS 201	Intro to Microcomputers	3
ECON 103	Principles of Microeconomics	4
ECON 104	Principles of Macroeconomics	4
HCCF 371	Family Development	3
HCRM 250	Consumer in Amer. Society	4
or HCID 180	Intro to Residential Design	3
HRM 420	Human Resource Management	4
INCO 101	Fund. of Human Comm.	4
or INCO 103	Fund. of Public Speaking	
JOUR 250	Advertising Principles	4
MATH 163A&B	Intro to Calculus	7
or MATH 263A&B	Calculus	8
MGT 200	Intro to Management	4
or MGT 202	Management	
MICR 211, 212	Environ. Microbiology and Lab	6
or MICR 311	General Microbiology	
PHYS 201, 202	Intro to Physics	10
PSY 101	General Psychology	5
PSY 221	Statistics for Beh. Sciences	4
PSY 275	Educational Psychology	4

Minor in Basic and Applied Nutrition**Minor code OR6360**

This minor gives you the opportunity to strengthen your knowledge of nutrition principles and applications. After completing this minor, you possess basic information concerning nutrition and diet to help others identify reliable nutrition resources in the community. A minimum of 29 to 31 hours plus any necessary prerequisites are required.

Supporting Sciences

(These courses are prerequisites to upper-level HCFN courses. Twelve hours can be applied to the minor.)

8IO5 34S	Human Physiology	4
8IO5 463	Cell Chemistry	4
CHEM 121, 122, 123 or CHEM 151, 152, 153	Principles of Chemistry Fund. of Chemistry	12 15
CHEM 301, 302	Organic Chemistry	6

Nutrition Courses

HCFN 128	Intro to Nutrition	4
HCFN 382	Intermediate Nutrition	4
HCFN 428	Advanced Nutrition	4
HCFN 429	Community Nutrition	3
HCFN 430	Therapeutic Nutrition	4

Interior Design**Major code BS6383**

The interior design program is accredited by the Foundation for Interior Design Education and Research (FIDER). The program prepares you for a career in residential and non-residential design, as well as related areas such as lighting, visual display, sales, and professional showroom management.

Program Standards

To remain active as an interior design major, you must meet the following criteria:

1 Submit and pass a portfolio review that includes all work from ART 110, 113, 116; HCID 180, 180A, 181, 299; and IT 104.

2 Earn at least a C (2.0) in each studio course marked with an asterisk (*).

3 Enroll in an advanced studio course during senior year.

During your senior year you will be required to complete a portfolio of your work.

Major Requirements

HCID 180	Intro to Residential Design	3
HCID 180A	Intro to Residential Design Studio	1
HCID 181	Color Theory	4
HCID 200	Beginning Computer-Aided Design	2
HCID 279	Rendering and Presentation Tech.	4
HCID 280*	Interior Design Studio I	4
HCID 281*	Interior Design Studio II	4
HCID 288	Lighting Fundamentals	3

HCID 299	Professional Practices	2
HCID 300	Computer-Aided Design, Professional Application	3
HCID 350	Principles, Materials, and Methods of Interior Construction I	3
HCID 350A*	Interior Constr. Studio	2
HCID 351	Principles, Materials, and Methods of Interior Con. II	3
HCID 352	Business Procedures and Contract Documents	3
HCID 384	Interior Design Programming	3
HCID 400	Senior Seminar—Professional Evaluation	1
HCID 480	History of Furniture and Interior Design I	3
HCID 481	History of Furniture and Interior Design II	3
HCID 482	History of Furniture and Interior Design III	3
HCID 483*	Advanced Interior Design Studio I	4
HCID 484*	Advanced Interior Design Studio II	4
HCID 485*	Advanced Interior Design Studio III	4
HCID 499	Field Work—Interior Des.	5–12

Required Related Courses

AH 211, 212, 213	History of Art	12
ART 110	Seeing and Knowing Visual Arts	4
ART 113	Three-Dimensional Design	4
ART 116	Drawing I	4
CS 120 or MIS 201	Computer Science Survey Intro to Microcomputers	4 3
HCCF 371	Family Development	3
HCFN 128	Intro to Nutrition	4
HCRM 250	Consumer in Amer. Society	4
HCRM 315	Elementary Textiles	4
INCO 103	Fund. of Public Speaking	4
IT 104	Architectural Drawing I	5
JOUR 250	Advertising Principles	4

Business (select a minimum of 12 hours)

ACCT 101	Financial Accounting	4
BUSL 255	Law and Society	4
HCRM 201	Intro to Retailing	4
HCRM 417	Retail Merchandising-Management	4
HCRM 437	Strategic Merchandise Planning	4
MGT 200 or MGT 202	Intro to Management Management	4
REAL 101	Real Estate Principles & Practices	4
REAL 103	Real Estate Law	4
REAL 201	Real Estate Appraising I	4
REAL 204	Real Estate Finance	4

Retail Merchandising

Major code BS6380

Program Standards

To remain active in retail merchandising, you must meet the following criteria:

- 1 Maintain overall g.p.a. of 2.0 (C) or better in all hours attempted at Ohio University.
- 2 Maintain a g.p.a. of 2.0 (C) or better in all courses listed under Major Requirements.
- 3 Complete any courses identified by an asterisk (*) in the option listing for your program with a grade of C or better.

You must succeed in a required program course by the third time you enroll in the course. If you do not meet this requirement, you will be dropped from the program. Success is a passing grade, or a grade of C in those courses where a minimum grade of C is required.

This program prepares you for retail management, marketing, distribution, and product development positions such as buyer, store or corporate manager, visual merchandiser, manufacturer's sales representative, and fashion coordinator.

Major Requirements

HCRM 201	Intro to Retailing	4
HCRM 250	Consumer in Am. Society	4
HCRM 299*	Prof. Development	4
HCRM 315*	Elementary Textiles	4
HCRM 383	Product Development, Evaluation, and Distribution	4
HCRM 399*	Career Search Strategies	3
HCRM 400	Internship Preparation	1
HCRM 405A	History of Costume	4
HCRM 407	Global Issues in Textiles, Apparel, and Retail Ind.	4
HCRM 417*	Retail Merchandising—Management	4
HCRM 418	Quality Control	4
HCRM 423	Retail Merchandising—Promotional Strategy	4
HCRM 437	Strategic Merchandise Planning	4
HCRM 480*	Strategic Retail Policy	4
HCRM 499*	Internship: Retail Merch.	16

Required Related Courses

ACCT 101	Financial Accounting	4
CA117	Intro to Fine Arts	4
CS 120 or MIS 201	Computer Science Survey Intro to Microcomputers	4 3
ECON 103	Principles of Microeconomics	4
ECON 104	Principles of Macroeconomics	4

ENG 305J or ENG 308J or HCGE 345J or PRCM 325J	Technical Writing Advanced Composition Writing in Human and Consumer Sciences Business Communication	4 4 4 4
HCCF 371	Family Development	3
INCO 103	Fund. of Public Speaking	4
JOUR 250	Advertising Principles	4
MGT 200 or MGT 202	Intro to Management Management	4 4
MKT 202	Marketing Principles	4
PSY 101	General Psychology	5
PSY 221	Statistics for Beh. Sciences	4
SOC 101	Intro to Sociology	5

Select two of the following:

HCCF 160	Intro to Child Development	4
HCFN 128	Intro to Nutrition	4
HCID 180	Intro to Residential Design	3

Select two of the following:

ART 113	Three-Dimensional Studies	4
ART 116	Drawing I: Descriptive Drawing	4
HCID 181	Color Theory	4
HCRM 150	Design and Illustration Techniques	4

If your mathematics placement exam result is lower than MATH 263, you must complete one of the following:

MATH 113	Algebra	5
MATH 115	Precalculus	5
MATH 163A	Intro to Calculus	4
MATH 263A	Calculus	4

Approved business electives

Select 12 hours at the 200, 300, or 400 level in ACCT, BA, BUSL, ECON, FIN, HRM, MGT, MKT, MIS, OPN, or QBA from a list of approved courses available from the program area.

Minor in Retail Merchandising

Minor code OR6380

CS 120 or MIS 201	Computer Science Survey Intro to Microcomputers	4 3
HCRM 201	Intro to Retailing	4
HCRM 407	Global Issues in Textiles, Apparel, and Retail Ind.	4
HCRM 417	Retail Merchandising—Management	4
HCRM 423	Retail Merchandising—Promotional Strategy	4
HCRM 437	Strategic Merchandise Planning	4
JOUR 250	Advertising Principles	4

School of Nursing

Kathleen Rose-Grippa, Director

Baccalaureate Nursing Program

Major code BS1203

The School of Nursing offers a RN-to-B.S.N. program designed for licensed RNs who are graduates of state-approved associate's degree or diploma schools of nursing. The purpose is to prepare generalists for the professional practice of nursing and to provide a foundation for graduate study. The program is accredited by the National League for Nursing and has preliminary approval from the Commission of Collegiate Nursing Education.

The major in nursing includes upper-division coursework in nursing, university General Education Requirements, and upper-division courses outside of nursing. It is possible to complete a minor in another discipline while completing the major in nursing. Courses are offered on all regional campuses, as well as on the Athens campus, increasing availability for professional development and career mobility for registered nurses.

Admission to and progression through the program include the following steps: (1) you are admitted to Ohio University; (2) after a review of your records of previous coursework, you are informed of the program prerequisites you must meet and are oriented to the expectations and structure of the program; (3) you are admitted to the nursing major and, if needed, you enroll in courses to complete prerequisites; (4) complete NRSE 295 (scheduled in February and August) before NRSE 300; and (5) complete the required nursing courses in sequence as well as other required courses for the degree.

Many nursing courses have a clinical component. Clinical experiences occur in a broad range of traditional and non-traditional health care and health maintenance settings. The communities surrounding the classroom locations are used whenever possible. These clinical experiences have been carefully selected to optimize learning. You are responsible for transportation to the clinical experiences.

You must earn a grade of 2.0 (C) or better in each course offered by the School of Nursing (NRSE series). If you do not earn a grade of C, you must retake the course before progressing to the next course in the sequence.

Note: most undergraduate courses offered through the School of Nursing can be retaken up to two times (i.e., initial registration and two retakes). Variable credit courses usually cannot be retaken (i.e., with the possibility of the initial grade no longer being figured in the accumulative grade point calculation) but can be repeated for credit to count toward your degree.

Upon completing the program prerequisites (90 quarter hours consisting of lower-division nursing and general education courses) and 102 quarter hours of upper-division nursing, general education, and support courses, you will receive the Bachelor of Science in Nursing degree.

Program Requirements

- 1 Graduate of state-approved associate's degree or diploma program in nursing.
- 2 Admission to Ohio University.
- 3 Evaluation of official transcripts from lower-division nursing program and all other post-secondary education. The evaluation must be completed by the university and the School of Nursing.
- 4 Completion of program prerequisites, including attendance at the orientation course, NRSE 295, before beginning the nursing major sequence of courses.
- 5 Prior to enrolling in clinical NRSE courses, documentation of:
 - a current license to practice as a registered nurse (RN) in Ohio.
 - b individual malpractice insurance.
 - c current immunizations (and/or waiver of the same) including hepatitis B.
 - d results of TB skin test completed within the past year.
 - e current CPR certification.

Program Prerequisites (90 hrs)

- I Lower-division Nursing (minimum of 36 qtr hours)*
 - A Transfer credit (36–45 qtr hrs) is awarded to applicants with an associate's degree in nursing from a regionally accredited college or university.
 - or
 - B Credit (36–45 qtr hrs) is awarded to applicants with a diploma in nursing upon completion of specified ACT Proficiency Examinations or other evaluative mechanisms.
- II Content Prerequisites**

Freshman English composition (ENG 151, 152, or 153)[†]

Computer Literacy (CS 120 or MIS 201)[†]

Quantitative skills (PSY 120)[†]

Nutrition (HCFN 128)[†]

Microbiology (MICR 201 or 211)[†]

Anatomy and Physiology (BIOS 130 and 131)[†]

Chemistry (CHEM 121 or 151)[†]

Human Growth and Development (HCCF 160 or PSY 273)[†]

Sociology (SOC 101)[†]

Psychology (PSY 101)[†]

NRSE 295 Intro to Baccalaureate Nursing Education*
- III Electives (credit hours will vary depending upon credit weight of prerequisites)

*Must be completed prior to enrollment in NRSE 300

**Some courses listed may fulfill university General Education Requirements.

[†]All but three must be completed prior to enrollment in NRSE 300.

Required Nursing Courses

NRSE 300	Transitions in Nursing	4
NRSE 310	Health Appraisal	4
NRSE 321	Health Promotion in Professional Nursing	2
NRSE 322	Teaching and Learning in Professional Nursing	2
NRSE 323	Counseling in Professional Nursing	2
NRSE 330A	Family Nursing	2
NRSE 330C	Family Nursing: Clinical	2
NRSE 335	Ethical and Legal Issues in Nursing	4
NRSE 340A	Community Health Nursing	2
NRSE 340C	Community Health: Clinical	2
NRSE 405	Research: Critique and Methodology	4

NRSE 415	Restorative Nursing	4
NRSE 416	Mgt. Issues in Nursing	4
NRSE 425	Clinical Applications in Nursing	4
NRSE 445	Strategic Planning in Nursing Care	4
NRSE 455	Excellence in Nursing	4

General Education/Support

You must complete Ohio University General Education Requirements:

Tier II—a minimum of 30 hours with at least 4 hours in 4 of 5 categories (some content prerequisites and/or electives you have taken may apply to this requirement)

Junior-level advanced composition (select one course with "J" designation)

Tier III synthesis course (select one course with "T3" designation)

You may select either Option A or Option B to meet the upper-division course requirements. With either plan, consultation with your major advisor is necessary.

Option A

Select 36–56 quarter hours of coursework as indicated in the following areas (300–400 level):

Junior level composition and Tier III as specified above (8 hours)

Behavioral Sciences

Psychology (select one)

Human Relations (select one)

Biological Sciences (select one)

Humanities (select one)

Electives (12–32 quarter hours)

At least 12 of these elective hours must be selected from 300 and 400 level courses with 1–5 credit hours of Ohio University workshop courses allowed. Other electives are to be chosen in consultation with advisor.

Option B

You must file a Category IV Declaration form with the School of Nursing when choosing Option B.

Select 36–56 quarter hours of coursework as indicated in the following areas:

Junior-level composition and Tier III as specified above (8 hours)

Complete a minor course of study, a second major, or one of the available licensure or certificate programs, e.g., School Nurse or Gerontology (min. of 28 hours)

Electives (up to 20 hours as needed). Courses should be at the 300 or 400 level but needed prerequisites or required courses for your minor, second major, license or certificate at the 100 or 200 level can be used. Electives are to be chosen in consultation with advisor.

If you do not have a B.S. degree in some area, you will have to earn one. This involves meeting university General Education Requirements and graduation requirements in addition to the major requirements and School Nurse Licensure requirements. Your file will be reviewed, and credit transferred from other accredited institutions will be used to meet requirements wherever possible. Graduates of diploma programs in nursing may earn 36 quarter hours of credit for lower-division nursing upon completion of specified ACT-PEP exams.

If you hold a B.S.N., you will likely have met the nursing course requirements (NRSE) listed below. If you earned your B.S.N. at another university, course descriptions from previous schools may be required to determine equivalent coursework.

Required Courses

EDCI 400	School, Society, and the Professional Educator	4
EDPL 461, 463	Student Teaching	13
EDPL 465	Stu. Teaching Seminar	3
HCCF 360	Human Sexuality	4
HLTH 204	Alcohol, Tobacco, and Other Drugs	4
HLTH 379	Teaching of Health	5
HLTH 495	School Health Problems	5
NRSE 300	Transitions in Nursing	4
NRSE 310	Health Appraisal	4
NRSE 321	Health Promotion in Professional Nursing	2
NRSE 322	Teaching and Learning in Professional Nursing	2
NRSE 323	Counseling in Prof. Nursing	2
NRSE 330A	Family Nursing	2
NRSE 330C	Family Nursing: Clinical	2
NRSE 340A	Community Health Nursing	2
NRSE 340C	Community Health Nursing: Clinical	2
PSY 233 or PSY 332	Psychology of Personality Abnormal Psychology	4
PSY 273	Child and Adolescent Psychology	4
PSY 275	Educational Psychology	4

Note: New courses and changes in existing courses are in the curriculum process. Check with your advisor for accuracy of the above listings.

School Nurse License

If you are licensed as an RN in Ohio, you are eligible to apply for admission to the School Nurse License Program. You can complete the program under one of three plans:

1 If you are an RN with a B.S.N. degree, take only the additional courses required to meet the Ohio Department of Education's licensure requirements.

2 If you are an RN who wishes to complete the B.S.N. and the School Nurse License simultaneously, follow the B.S.N. program of study and use the required School Nurse License courses as part of that degree.

3 If you are an RN who seeks to complete a B.S. degree not in nursing, consult with both your major advisor and the School Nurse License advisor to develop a program.

School of Physical Therapy

Averell Overby, Director

The School of Physical Therapy offers an entry-level master's program in physical therapy leading to a Master of Physical Therapy (M.P.T.) degree. The program is accredited by the Commission on Accreditation in Physical Therapy Education (CAPTE). The 3+3 curriculum means that you can complete three years of undergraduate study and three years of professional or graduate study if you are accepted into the program. The professional program begins in June and extends over a three-calendar-year period.

The problem-solving curriculum is designed to prepare competent health care professionals who will be able to employ critical decision-making skills for optimal patient care and to use critical inquiry for self-assessment, health care and professional issues, research, and practice analysis.

Clinical experience is integrated with the didactic and laboratory components throughout the program of study. Part-time clinical practica are arranged in local clinics (community hospitals, home health agencies, extended care facilities, developmental disabilities centers, and private practices) supervised by faculty and staff from Ohio University Therapy Associates, the school's faculty practice, and local clinicians. Full-time clinical practica are arranged in clinical facilities located outside the Athens area. The School of Physical Therapy has agreements with a large variety of medical centers, general acute hospitals, rehabilitation centers, and specialty clinics in Ohio as well as Arizona, California, Colorado, Florida, Indiana, Illinois, Kentucky, Louisiana, Michigan, Mississippi, New York, New Jersey, North Carolina, Pennsylvania, Tennessee, Virginia, and West Virginia.

If accepted into the program, you will be responsible for your own transportation to and from clinical sites and for housing and other living expenses during all of your affiliations. You also will be required to: (1) obtain CPR certification prior to participation in full-time practica; (2) have a physical examination, including evidence of results of a recent TB skin test; and (3) provide documentation of current immunization for hepatitis B (or a waiver form). Some sites may require proof of immunization for other selected diseases. In addition, you must purchase malpractice insurance to be eligible for participation in the clinical practica. Membership in the American Physical Therapy Association and attendance at state conferences are encouraged.

Eligibility to Apply

The School of Physical Therapy accepts students in two categories: those who already possess a baccalaureate degree and those who are eligible to receive a baccalaureate degree by the completion of the first year of professional study.

You must meet the following requirements to be eligible to apply for June admission to the School of Physical Therapy's graduate program:

- 1 earned a minimum overall grade-point average (g.p.a.) of 3.0 on a 4.0 scale.
- 2 completed at least 8 of the 12 Life and Physical Sciences prerequisite courses by the end of the fall quarter in which you apply. You must complete the remainder of the math, behavioral, and life/physical science prerequisites during the winter and spring quarters following submission of your application and before beginning study in the program.
- 3 completed or be able to complete a baccalaureate degree by the end of the first year of the program.

Minimum Prerequisite Course Requirements*

General

PHIL 120	Principles of Reasoning	4
PSY 221	Statistics for Beh. Sciences	5
PSY 273	Child and Adolescent Psy.	4
Plus one additional psychology course (not including PSY 120 or 221)		

Math

MATH 163A	Calculus	4
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Life and Physical Sciences**

BIOS 170	Intro. to Zoology	5
BIOS 171	Intro. to Zoology	5
BIOS 301	Human Anatomy	6
or BIOS 302	Human Anatomy	6
or BIOS 303	Comp. Vertebrate Anatomy	6
BIOS 345, 346	Human Physiology	7
BIOS 445, 446	Exercise Physiology	7***
or PESS 414, 415	Exercise Physiology	
CHEM 121, 122, 123	Prin. of Chemistry	12
or CHEM 151, 152, 153	Fund. of Chemistry	15
PHYS 201, 202	Physics	10
TOTAL		66-69 quarter hours

*All prerequisite courses must be passed with a grade of C or better.

**All life and physical science courses must include a laboratory component. You must have a total of 20 quarter hours (14 semester hours) at or above the junior (300) level in the anatomy, physiology, and exercise physiology lecture and lab courses.

***Ohio University students must take these courses prior to entering the physical therapy program. Transfer students may take these courses at Ohio University in their first graduate year with special permission only.

Application Procedures

Materials are available each September for application to the following year's class (which begins in June). The application deadline is the third Wednesday in November. Complete the following procedures to apply:

- 1 Obtain a Physical Therapy Graduate Program admission packet from the School of Physical Therapy, Ohio University, 172 Convocation Center, Athens OH 45701. (Note: all application materials will be included in the packet. Do not use application or recommendation forms found in the *Graduate Catalog*.)

2 Submit completed application packet to the School of Physical Therapy at the address shown in item 1 above. The following must be included with the packet:

a evidence of either an earned baccalaureate degree or plan for degree completion:

- 1) If you have a baccalaureate degree at the time of application, submit transcripts with verification of the degree(s) awarded
- 2) If you do not have a baccalaureate degree at the time of application but will have a baccalaureate degree awarded before beginning the professional program in June, submit a plan for completing the degree signed by your advisor. You must provide verification of the completion of degree requirements before you begin the professional program, and an official transcript indicating the awarding of the degree must be received by Graduate Student Services by the start of the fall quarter.
- 3) If you will not have a baccalaureate degree before you begin the professional program in June and you are pursuing an *in absentia* degree, you must submit a plan for completing the *in absentia* degree that has been signed by the dean of your college or your advisor. (If you are admitted to the program but do not complete a degree by the end of the first year, you will not be allowed to continue for the second year, which begins the following June.)

b two official transcripts from each post-secondary institution attended except Ohio University. If you completed prerequisite coursework at institutions other than Ohio University, you must submit course descriptions.

c Nonrefundable application fee.

Selection Procedures

The admissions committee of the School of Physical Therapy may consider the following in ranking and selecting eligible applicants:

- 1 overall g.p.a.
- 2 prerequisite life and physical sciences g.p.a.
- 3 interview
- 4 essay
- 5 references
- 6 relevant life experiences

Typically 36 students will be admitted yearly. Applicants will be notified of acceptance by the beginning of April.

Program of Study

The following is a listing of the courses required in the first year of the three-calendar-year graduate professional education program in physical therapy. Courses are dual-listed at the undergraduate (400 numbers) and graduate level (500 numbers). Depending upon your admittance status, you enroll in either the undergraduate or graduate level of the course during your first year. The remaining two years of the program are at the graduate level and are described in the Ohio University *Graduate Catalog*.

First Year Coursework

PT 400 or 500	Human Anatomy & Dissection	7
PT 401 or 501	Functional Anatomy	3
PT 402 or 502	Clinical Kinesiology	3
PT 403 or 503	Pathophysiologic Proc. in Physical Therapy	2
PT 404 or 504	Intro to the Profession	2
PT 405 or 505	Intro to Clinical Education	2
PT 406 or 506	Clinical Neurology for Physical Therapists	2
PT 412 or 512	Professional Role Issues	2
PT 425A or 525A	Evaluation: Case Studies	2
PT 440 or 540	Clinical Decision Making	2
PT 448A or 548A	Clinical Modalities	3
PT 450A or 550A	Intro to Clinical Orthopedics	3
PT 467 or 567	General Medical Surgical	3
PT 480A or 580A	Research Design	3
PT 499 or 599	Clinical Ed. Experience I	1
BIOS 402 or 502	Neuroscience	4

Eligibility Requirements to Begin Physical Therapy Coursework

If admitted, you must meet the following requirements before beginning physical therapy coursework in June:

- 1 completion of all prerequisite coursework.
- 2 an earned baccalaureate degree or an approved plan for baccalaureate degree completion by the end of the first year of the physical therapy program. If you do not complete a degree by the end of the first year, you will not be allowed to progress into the second year (which begins the next June).

School of Recreation and Sport Sciences

Keith D. Ernce, Director

Physical education and sport sciences programs have been designed to promote basic knowledge in human movement, to provide contemporary professional curricula, and to offer diverse activity programs that provide for the development of motor skills and physical fitness for all students.

The Recreation Studies curriculum is designed to provide students with a comprehensive program that includes both basic and practical knowledge in the field of recreation. Both major and minor curricula are offered.

For information about the program, go to our Web site at www.ohiou.edu/~rspsdept/index.htm.

Note: Courses offered through the School of Recreation and Sport Sciences vary in the number of times they can be retaken (i.e., initial registration plus retake). If you need to know the limit for a course, contact the college's Student Services office. Variable credit courses usually cannot be retaken (i.e., with the possibility of the initial grade no longer being figured in the accumulative grade point calculation) but can be repeated for credit to count toward your degree. While no limit has been set for repeats of PED courses, individual majors, schools, departments, and colleges may limit the number of such hours that can count toward graduation.

Athletic Training

Selected admission to the major is gained through an on-campus interview and the completion of curriculum application materials, in addition to the regular university application materials, before February 1. For information on how to apply, contact the Athletic Training Education Office, School of Recreation and Sport Sciences, Ohio University, Athens OH 45701-0689, or phone 740-593-4649.

If you are selected for the program, you are required to show proof of a hepatitis B vaccination and physical exam before you enroll. You must complete a minimum of 800 hours of clinical experience between your sophomore and senior years. Successful completion of the program qualifies you to take the National Athletic Trainers' Association Inc., Certification Examination and the State of Ohio Athletic Trainer Licensure Examination. You are awarded the Bachelor of Science in Athletic Training upon completion of the program.

Athletic Training/Exercise Physiology Major code BS8117

Athletic Training Core Courses

BIOS 302	Human Anat. for Nonmajors	6
or BIOS 301	Human Anatomy	
BIOS 34S	Human Physiology	4
HCFN 12B	Intro to Nutrition	4
HLTH 202	Health Sciences and Lifestyle Choices	4
HLTH 204	Alcohol, Tobacco, and Other Drugs	4
HLTH 230	Medical Terminology for Health Admin.	4
PESS 203	Intro to Exercise Physiology	3
PESS 227	First Aid	3
PESS 22B	CPR	1

PESS 247	Fitness Testing	3
PESS 302	Biomechanics	4
or BIOS 352	Biomechanics	
PESS 327	Instructor First Aid	3
PESS 32B	Instructor CPR	3
PESS 333	Adapted Physical Education	4
PESS 347	Exercise Prescription I	3
PESS 414, 41S	Physiology of Exercise and Lab	7
or BIOS 44S, 446	Physiology of Exercise and Lab	7
PESS 447	Exercise Prescription II	4
PHYS 201, 202	Intro to Physics	10
PSY 101	General Psychology	5
PSY 120	Elem. Statistical Reasoning	4
or PSY 221	Statistics for Beh. Sciences	or 5
RSAT 129	Principles of Athletic Training	3
RSAT 131	Practical Aspects of Athletic Training	2
RSAT 326	Recognition and Evaluation of Athletic Injuries	4
RSAT 327	Prevention and Management of Athletic Injuries	3
RSAT 33S	Therapeutic Modalities	5
RSAT 34S	Emergency Care of Athletic Injuries	3
RSAT 360	Therapeutic Exercise	5
RSAT 420	Admin. of Athletic Training	3

Required Related Courses

BIOS 170, 171	Intro to Zoology	10
CHEM 121, 122, 123	Principles of Chemistry	12
or CHEM 1S1, 1S2, 1S3	Fund. of Chemistry	15
PESS 12S	Human Movement and Fitness Perspectives	4

Even if your mathematics placement exam result is MATH 263 (which means that you demonstrated quantitative skills sufficient to meet the Tier I requirement), you must complete one of the following:

MATH 113	Algebra	5
MATH 11S	Precalculus	5
MATH 163A	Intro to Calculus	4
MATH 263A	Analytic Geometry & Calculus	4

Physical Education and Sport Sciences

Physical Education and Sport Sciences includes three major areas of specialization: physical education with an emphasis on teaching PreK-Grade 12, exercise physiology, and sport industry.

In order to be granted a degree in either physical education or sport sciences, you must be a declared major for at least one academic year (three quarters) immediately before graduation. No more than three quarter hours of credit in each of the following courses will count toward the 192 hours needed for graduation:

BIOS 392 and/or BIOS 492	Topics in Zoology
MUS 251A	Marching Band
PED 123	Conditioning and Weight Training
PESS 418A	Instructional Experience

Physical Education

Major code BS8106

A major in physical education prepares you to teach physical education from prekindergarten through grade twelve (PreK-12 teaching license). You must meet the criteria for selective admission to and retention in teacher education as established by the College of Education (see Admission to Professional Education in the College of Education section for further information). To graduate and receive your teaching license in this major, you must complete all College of Education requirements in addition to program requirements. Upon completion of the program and after passing the Praxis II exam, you are eligible for a provisional teaching license in physical education. You will be granted a Bachelor of Science in Physical Education upon successful completion of all requirements.

Required General Education Courses

Ohio requirements for teacher licensure state that you must complete a general studies program that includes the arts, communications, history, literature, mathematics, philosophy, sciences and the social sciences. In addition, the general studies curriculum should incorporate multicultural and global perspectives. You should work closely with your faculty advisor to select courses that would fulfill both Ohio University's General Education Requirements (see the Graduation Requirements section) and the requirements for teacher licensure.

Specific Tier II courses required in this major are:

BIOL 101 or BIOS 103	Principles of Biology Human Biology	5
PSY 101	General Psychology	5

In addition, you must complete INCO 103 Fundamentals of Public Speaking before you can apply for admission into Professional Education in the College of Education.

Professional Standing Core

You must earn at least a C (2.0) or better in all of the following courses:

PESS 125	Human Movement and Fitness Perspectives	4
PESS 202	Introduction to Teaching Physical Education	3
PESS 227	First Aid	3
HLTH 202	Health Sciences & Lifestyle Choices	4

Physical Education/Teacher Education Core

You must earn at least a C (2.0) or better in all of the following courses:

PESS 205	Fundamentals of Movement, Rhythms and Dance	3
PESS 240A	Foundations of Sport and Games in Physical Education I	3
PESS 240B	Foundations of Sport and Games in Physical Education II	3
PESS 310	Principles, Theories and Methods of Teaching Early Childhood Physical Ed	6
PESS 330	Principles, Theories and Methods of Teaching Middle Childhood Physical Ed	6
PESS 370	Principles, Theories and Methods of Teaching Adolescent and Young Adult Physical Education	6
REC 291	Outdoor Pursuits	3

Physical Education Required Courses

You must earn at least a C (2.0) or better in all of the following courses:

BIOS 302	Human Anatomy	6
HCCF 160	Intro to Child Development	4
PESS 204	History and Principles of Physical Education	4
PESS 212	Intro to Coaching	3
PESS 302	Biomechanics	4
PESS 333	Adapted Physical Educ.	4
PESS 345	Intro to Exer. Physiology	4
PESS 405	Motor Learning	4
PESS 409	Tests and Measurements	4

You must earn at least a C (2.0) or better in one of the following aquatic courses:

PESS 104	Intermediate Swimming	2
PESS 21B	Lifeguard Training	2
PESS 220	Water Safety for Instructors	3

Required Professional Education Courses

The following three courses are to be taken together as a block:

EDCI 200	Learning, Human Growth, and Development	6
EDCI 201	Characteristics of Learners with Exceptionalities	3
EDCI 202	Field Exp. in Typical and Exceptional Student Development	2
EDCI 203	Technological Applications in Education	4
EDCI 301	Educ. and Cultural Diversity	3
EDCI 371A	Instr. Adapt. for Learners with Exceptionalities and Diverse Needs	4
EDCI 400	School, Society, and the Professional Educator	4
EDCI 420	Teaching of Reading	5
EDMC 300	Middle Childhood Instructional Process and Curriculum	4
EDMC 301	Middle Childhood Education and Curriculum	5
EDPL	Student Teaching	13
EDPL 465	Student Teaching Seminar	3

Adapted Physical Education Endorsement

This endorsement can be attached to an already existing physical education license (multi-age). The endorsement provides an opportunity for individuals already working in physical education to develop the skills necessary to work with handicapped students and will be helpful to other professionals concerned with this population.

PESS 314	Coaching Sports for the Disabled	3
PESS 333	Adapted Physical Education	4
PESS 409	Tests and Measurements	4
PESS 434	Clinical and Field-Based Experiences in Adapted Physical Education	1-4
PESS 480	Teaching Adapted Physical Ed: Analysis and Description	3
PESS 485	Perceptual Motor Development in Children	3

Exercise Physiology**Major code BS8122**

The Sport Sciences-Exercise Physiology option can be used to fulfill most of the School of Physical Therapy's prerequisites for admission.

Professional Standing Core

You must earn at least a C (2.0) or better in all of the following courses:

PESS 125	Human Movement and Wellness Perspectives	4
PESS 203	Introduction to Exercise Physiology	3
PESS 227	First Aid	3
HLTH 202	Health Sciences and Lifestyle Choices	4

Exercise Physiology Core

BIOS 170 & 171	Introduction to Zoology	10
BIOS 302	Human Anatomy	6
BIOS 345	Human Physiology	4
BIOS 346	Human Physiology Lab	3
CHEM 121-123 or CHEM 151-153	Principles of Chemistry Fundamentals of Chemistry	12 15
HCFN 128	Introduction to Nutrition	4
PESS 247	Fitness Testing	3
PESS 261	Practicum in Sport Sci.	1
PESS 302	Biomechanics	4
PESS 347	Exercise Prescription I	3
PESS 405	Motor Learning	4
PESS 414	Physiology of Exercise	4
PESS 415	Physiology of Exercise Lab	3
PESS 416	Resistance Training	3
PESS 447	Exercise Prescription II	4
PHYS 201 & 202	Introduction to Physics	10

Exercise Physiology Requirements

ANTH 101	Intro to Cultural Anthropology	5
or SOC 101	Intro to Sociology	
MATH 163A or MATH 263A	Intro to Calculus Calculus	4
PSY 101	General Psychology	5
PSY 120	Elementary Statistical Reasoning	4
or PSY 221	Statistics for Behavioral Sciences	5

Select one of the following courses:

HLTH 217	Introduction to Health Care Organizations	4
PESS 213	Youth and Sports	3
PESS 313	Sport Club Management	3
PESS 421	Principles of Aging and Physical Activity	4
PESS 493	Research Dynamics: Planning, Participation, and Actualization of the Research Process 1-6 (6 max)	

Select one of the following PSY courses:

PSY 233	Psychology of Personality	4
PSY 312	Physiological Psychology	4
PSY 327	Human Psychophysiology	4
PSY 332	Abnormal Psychology	4

PESS Skills Development

You must complete 10 hours with a minimum of 2 hours required in each of the three categories.

Aquatics (2 hours minimum)

PESS 103	Beginning Swimming	2
PESS 104	Intermediate Swimming	2
PESS 109	Synchronized Swimming	2
PESS 110	Aqua Aerobics	2
PESS 218	Life Guard Training	2
PESS 220	Water Safety Instructor	3
PESS 265	Diving and Competitive Swimming	2

Sport Activities (2 hours minimum)

PESS 223	Track & Field	2
PESS 224B	Wrestling	2
PESS 260A	Flag Football	2
PESS 260B	Team Handball	2
PESS 262A	Field Hockey	2
PESS 262B	Soccer	2
PESS 264B	Lacrosse	2

Lifetime Activities (2 hours minimum)

PESS 107	Modern Dance	2
PESS 115	Rhythmics	2
PESS 116	Social Dance	2
PESS 117	Folk & Square Dance	2
PESS 120	Assault Prevention	2
PESS 141A	Archery	2
PESS 141B	Golf	2
PESS 221A	Tennis	2
PESS 224A	Racquetball	2
PESS 263A	Basketball	2
PESS 263B	Volleyball	2
PESS 264A	Softball	2

Sport Industry

Major code BS8123

Professional Standing Core

You must earn at least a C (2.0) or better in all of the following courses:

PESS 125	Human Movement and Fitness Development	4
PESS 201	Intro to the Sport Industry	3
PESS 227	First Aid	3
HLTH 202	Health Sciences and Lifestyle Choices	4

Sport Industry Core

ACCT 101	Financial Accounting	4
BUSL 255	Law & Society	4
BUSL 465	Law of Sports	4
ECON 103	Principles of Microeconomics	4
ECON 104	Principles of Macroeconomics	4
ECON 318	Economics of Sport	4
MGT 202	Management	4
MKT 202	Marketing Principles	4
PESS 225	History of the Sport Industry	4
PESS 261	Practicum in Sport Sciences	1
PESS 313	Sport Club Management	3
PESS 376	Athletic Facility Planning and Management	4
PESS 391	Risk Management	4
PESS 401	Sports Marketing	4
PESS 412	Sports Governance and Ethics	4
PESS 425	Financial Issues in Sport	4
PESS 430	Sp. Sponsorship & Licensing	4
PSY 101	General Psychology	5
PSY 221	Statistics for Behavioral Sciences	5
REC 200	Intro to Leisure	4
SOC 101	Intro to Sociology	5
SOC 233	Sociology of Sport	4

Sport Industry Requirements

Select two of the following PESS courses:

PESS 212	Introduction to Coaching	3
PESS 213	Youth and Sport	3
PESS 325	Human Dynamics of Sport	3
PESS 400	Women in Sport	3
PESS 408	The Black Athlete and American Sport	3
PESS 411	The Olympic Movement	3
PESS 421	Principles of Aging and Physical Activity	4
PESS 455	Administration of Aquatic Facilities	3

Select one of the following courses:

AAS 440	The Black Child	4
HCRM 250	The Consumer in American Society	4
HIST 319B	American Baseball to 1930	4
HIST 319C	American Baseball since 1930	4
HRM 420	Human Resource Mngnt.	4
INCO 105	Intro to Mass Comm.	4
INCO 205	Group Discussion	4
INCO 206	Communication in Interpersonal Relationships	4
JOUR 105	Intro to Mass Comm.	4
TCOM 105	Intro to Mass Comm.	4

PESS Skills Development

You must complete 10 hours with a minimum of 2 hours required in each of the three categories.

Aquatics (2 hours minimum)

PESS 103	Beginning Swimming	2
PESS 104	Intermediate Swimming	2
PESS 109	Synchronized Swimming	2
PESS 110	Aqua Aerobics	2
PESS 218	Life Guard Training	2
PESS 220	Water Safety Instructor	3
PESS 265	Diving and Competitive Swimming	2

Sport Activities (2 hours minimum)

PESS 223	Track & Field	2
PESS 224B	Wrestling	2
PESS 260A	Flag Football	2
PESS 260B	Team Handball	2
PESS 262A	Field Hockey	2
PESS 262B	Soccer	2
PESS 264B	Lacrosse	2

Lifetime Activities (2 hours minimum)

PESS 107	Modern Dance	2
PESS 115	Rhythmics	2
PESS 116	Social Dance	2
PESS 117	Folk & Square Dance	2
PESS 120	Assault Prevention	2
PESS 141A	Archery	2
PESS 141B	Golf	2
PESS 221A	Tennis	2
PESS 224A	Racquetball	2
PESS 263A	Basketball	2
PESS 263B	Volleyball	2
PESS 264A	Softball	2

Recreation Studies

The coursework is designed to prepare you in the basic recreation core and allow you to concentrate in adventure recreation, camping, outdoor education, recreation management, therapeutic recreation, or special interests. After successfully completing the requirements, you will be awarded the Bachelor of Science in Recreation Studies.

The curriculum prepares you to assume positions in city recreation and park departments, state and federal government agencies, youth service agencies, industrial agencies, religious organizations, camping, commercial or institutional recreation programs, or administration.

Adventure Recreation

Major code BS8113

This option focuses upon planning, conducting, and administering high adventure and wilderness skills programs. You may qualify for positions with various wilderness and survival schools, outdoor leadership programs, expedition outfitters, and commercial enterprises in high adventure activities. Career opportunities are also increasing in programs involving juvenile offenders in both public and private agencies.

Health and Sport Sciences

(Select 20 hrs)

HLTH 202	Health Sciences and Lifestyle Choices	4
HLTH 204	Alcohol, Tobacco, and Other Drugs	4
HLTH 205	AIDS Education and Prevention	4
PESS 115	Rhythmics	2
PESS 218	Life Guard Training	2
PESS 220	Water Safety for Instructors	3
PESS 227*	First Aid	3
PESS 228	CPR	1
PESS 327	Instructor's First Aid	3
PESS 328	Instructor CPR	3
PESS 339	Football Officiating	3
PESS 340	Basketball Officiating	3
PESS 341	Baseball Officiating	3
PESS 390* or PESS 391*	Safety Education Risk Management	4
REC 290*	Recreational Sport Officiating	3
REC 381*	Management of Recreational Sports	4

Required Professional Recreation Core

REC 200*	Intro to Leisure	4
REC 236*	Field Experience in Recreation	1-3
REC 250*	Recreation Leadership	3

REC 275*	Recreation for Individuals with Disabilities	4
REC 310*	Program Planning and Facilities for Rec.	5
REC 314*	Camping	4
REC 315*	Outdoor Education and Recreation	4
REC 336*	Field Experience in Recreation	3
REC 440*	Internship	16
REC 449*	Administration of Community Recreation	4
REC 460*	Understanding Leisure	4

Recreation Tool Courses

(Select 18 hrs)

PESS 213	Youth and Sports	3
PESS 273	Movement Education and Fund. Skills	3
PESS 274	Sport and Game Skills for Elem. School Children	3
PESS 313	Sport Club Management	3
REC 240	Taxidermy	2
REC 241	Taxidermy II	2
REC 251*	Crafts for Recreation Programs	3

Or select any course from ART, CA 150, DANC, MUS, THAR

Physical Education or Recreation Activities

Select 9 courses from any REC 100-level course (except 199) or PED course.

Professional Courses

Select a minimum of 35 hours from:

PBIO 225	Flowers	4
PBIO 303	Medicinal Plants of Ohio	3
GEOL 130	Geology of National Parks	4
GEOL 215	Environ. Geology	4
GEOL 231	Water and Pollution	4
GEOL 330	Principles of Geomorphology	5
GEOL 434	Geological Applications of Remote Sensing	4
REC 101*	Orienteering	1
REC 102*	Advanced Orienteering	1
REC 105	Whitewater Rafting	1
REC 106	Hunting	1
REC 107	Trap Shooting	1
REC 108	Technical Climbing	1
REC 111	Cross Country Skiing	1
REC 112	Backpacking	1
REC 113	Canoeing	1
REC 114	Kayaking	1
REC 115	Ropes	1
REC 116	Rescue Techniques	1
REC 117	Primitive Construction	1
REC 291	Outdoor Pursuits	3
REC 311*	Expedition Management	3
REC 312*	Medical Emergency Response	3
REC 390*	Wilderness Survival	3
REC 475*	Adventure Programming	3

SOC 201	Contemporary Social Problems	4
SOC 210	Intro to Social Psychology	4
SOC 260	American Criminal Justice	4
SOC 361	Deviant Behavior	4
SOC 363	Juvenile Delinquency	4
SOC 466	Penology	4
SW 101	Intro to Social Welfare and Social Work	3

*Required

Outdoor Education and Camping

Major code BS8108

This option focuses upon planning, conducting, and administering outdoor recreation programs, with special emphasis available for school-oriented programs and resident camping. You may qualify for positions as an interpretive naturalist, outdoor education resource person, camp director, visitor information center director, or supervisor of outdoor recreation programs in federal, state, or local agencies.

Health and Sport Sciences

(Select 20 hrs)

HLTH 202	Health Sciences and Lifestyle Choices	4
HLTH 204	Alcohol, Tobacco, and Other Drugs	4
HLTH 205	AIDS Education and Prevention	4
PESS 115	Rhythmics	2
PESS 218	Life Guard Training	2
PESS 220	Water Safety for Instructors	3
PESS 227*	First Aid	3
PESS 228	CPR	1
PESS 327	Instructor's First Aid	3
PESS 328	Instructor CPR	3
PESS 339	Football Officiating	3
PESS 340	Basketball Officiating	3
PESS 341	Baseball Officiating	3
PESS 390* or PESS 391*	Safety Education Risk Management	4
REC 290*	Recreational Sport Officiating	3
REC 381*	Management of Recreational Sports	4

Required Professional Recreation Core

REC 200*	Intro to Leisure	4
REC 236*	Field Experience in Recreation	1-3
REC 250*	Recreation Leadership	4
REC 275*	Recreation for Individuals with Disabilities	4
REC 310*	Program Planning and Facilities for Rec.	5
REC 314*	Camping	4
REC 315*	Outdoor Education and	

	Recreation	4
REC 336*	Field Experience in Recreation	3
REC 440*	Internship	16
REC 449*	Administration of Community Recreation	4
REC 460*	Understanding Leisure	4

Recreation Tool Courses

(Select 18 hrs)

PESS 213	Youth and Sports	3
PESS 273	Movement Education and Fund. Skills	3
PESS 274	Sport and Game Skills for Elem. School Children	3
PESS 313	Sport Club Management	3
REC 240	Taxidermy	2
REC 241	Taxidermy II	2
REC 251*	Crafts for Recreation Programs	3

Or select any course from ART, CA 150, DANC, MUS, THAR

Physical Education or Recreation Activities

Select 9 courses from any REC 100-level course (except 199) or PED course.

Professional Courses

Select a minimum of 35 hours from:

ASTR 100	Survey of Astronomy	4
BIOS 170	Intro to Zoology	5
BIOS 435	Entomology	6
BIOS 475 or PBIO 425	Sociobiology Plant Ecology	3 or 5
GEOG 101	Elements of Physical Geography	5
or GEOL 215	Environ. Geology	or 4
GEOG 260	Maps	4
GEOL 101	Intro to Geology	5
GEOL 130	Geology of National Parks	4
GEOL 211	Intro to Oceanography	4
GEOL 221	Earth and Life History	4
GEOL 231	Water and Pollution	4
GEOL 312	Earth Materials and Resources	5
GEOL 315	Mineralogy	5
GEOL 320	Rocks	3
PBIO 102	Plant Biology	5
PBIO 103	Plants and People	4
PBIO 225	Flowers	4
PBIO 247	Vegetation of North America	4
PBIO 303	Medicinal Plants of Ohio	3
PBIO 311	Biology and Human Affairs	4
PBIO 426	Physiological Plant Ecology	5
PSY 275	Educational Psychology	4
REC 101	Orienteering	1
REC 102	Advanced Orienteering	1
REC 103	Survival I	1

*Required

Recreation Management**Major code BS8109**

This option focuses upon the administration of recreation programs and qualifies you for positions with public recreation, voluntary agencies, resident institutions, and camp administration.

Health and Sport Sciences

(Select 20 hrs)

HLTH 202	Health Sciences and Lifestyle Choices	4
HLTH 204	Alcohol, Tobacco, and Other Drugs	4
HLTH 205	AIDS Education and Prevention	4
PESS 115	Rhythmics	2
PESS 218	Life Guard Training	2
PESS 220	Water Safety for Instructors	3
PESS 227*	First Aid	3
PESS 228	CPR	1
PESS 327	Instructor's First Aid	3
PESS 328	Instructor CPR	3
PESS 339	Football Officiating	3
PESS 340	Basketball Officiating	3
PESS 341	Baseball Officiating	3
PESS 390* or PESS 391*	Safety Education Risk Management	4
REC 290*	Recreational Sport Officiating	3
REC 381*	Management of Recreational Sports	4

Required Professional Recreation Core

REC 200*	Intro to Leisure	4
REC 236*	Field Experience in Recreation	1-3
REC 250*	Recreation Leadership	4
REC 275*	Recreation for Individuals with Disabilities	4
REC 310*	Program Planning and Facilities for Rec.	5
REC 314*	Camping	4
REC 315*	Outdoor Education and Recreation	4
REC 336*	Field Experience in Recreation	3
REC 440*	Internship	16
REC 449*	Administration of Community Recreation	4
REC 460*	Understanding Leisure	4

Recreation Tool Courses

(Select 18 hrs)

PESS 213	Youth and Sports	3
PESS 273	Movement Education and Fund. Skills	3
PESS 274	Sport and Game Skills for Elem. School Children	3
REC 240	Taxidermy	2
REC 241	Taxidermy II	2
REC 251*	Crafts for Recreation Programs	3

Or select any course from ART, CA 150, DANC, MUS, THAR

Physical Education or Recreation Activities

Select 9 courses from any REC 100-level course (except 199) or PED course.

Professional Courses

Select a minimum of 35 hours from:

ACCT 101	Financial Accounting	4
BUSL 255	Law and Society	4
BUSL 465	Law of Sports	4
CS 120* or MIS 201*	Computer Science Survey Intro to Microcomputers	4 or 1
CS 220	Intro to Computing	5
ECON 103	Principles of Microeconomics	4
HRM 420	Human Resource Management	4
HRM 425	Labor Relations	4
HRM 460	Human Resource Policy, Planning, and Info. Sys.	4
JOUR 105	Intro to Mass Communication	4
JOUR 221	Graphics of Communication	5
JOUR 231	New Reporting	4
JOUR 250	Principles of Advertising	4
JOUR 471	Public Relations Principles	5
MGT 200 or MGT 202	Intro to Management Management	4
MGT 340	Organizational Behavior—Micro Perspective	4
MGT 428	Nonindustrial Labor Relations	4
MKT 202	Marketing Principles	4
PESS 313	Sport Club Management	3
REC 311	Expedition Management	3

*Required

Special Interests

Major code BS8110

This option focuses upon individualized programs designed to meet unique career goals and will qualify you for extremely specialized positions in recreation and recreation-related fields. This option is not available if you can meet your career goals through one of the existing courses of study.

The special interests concentration consists of your selecting, in consultation with an assigned advisor from the recreation studies faculty, a 35-hour course of study directed toward your particular goals. Your course of study must be approved by the faculty. A copy of your program will be filed with the recreation studies coordinator and assistant dean, College of Health and Human Services.

Health and Sport Sciences

(Select 20 hrs)

HLTH 202	Health Sciences and Lifestyle Choices	4
HLTH 204	Alcohol, Tobacco, and Other Drugs	4
HLTH 205	AIDS Education and Prevention	4
PESS 115	Rhythmics	2
PESS 218	Life Guard Training	2
PESS 220	Water Safety for Instructors	3
PESS 227*	First Aid	3
PESS 228	CPR	1
PESS 327	Instructor's First Aid	3
PESS 328	Instructor CPR	3
PESS 339	Football Officiating	3
PESS 340	Basketball Officiating	3
PESS 341	Baseball Officiating	3
PESS 390* or PESS 391*	Safety Education Risk Management	4
REC 290*	Recreational Sport Officiating	3
REC 381*	Management of Recreational Sports	4

Required Professional Recreation Core

REC 200*	Intro to Leisure	4
REC 236*	Field Experience in Recreation	1-3
REC 250*	Recreation Leadership	4
REC 275*	Recreation for Individuals with Disabilities	4
REC 310*	Program Planning and Facilities for Rec.	5
REC 314*	Camping	4
REC 315*	Outdoor Education and Recreation	4
REC 336*	Field Experience in Recreation	3
REC 440*	Internship	16
REC 449*	Administration of Community Recreation	4
REC 460*	Understanding Leisure	4

Recreation Tool Courses

(Select 18 hrs)

PESS 213	Youth and Sports	3
PESS 273	Movement Education and Fund. Skills	3
PESS 274	Sport and Game Skills for Elem. School Children	3
REC 240	Taxidermy	2
REC 241	Taxidermy II	2
REC 251*	Crafts for Recreation Programs	3

Or select any course from ART, CA 150, DANC, MUS, THAR

Physical Education or Recreation Activities

Select 9 courses from any REC 100-level course (except 199) or PED course.

Professional Courses

In consultation with your advisor, select a minimum of 35 hours.

*Required

Therapeutic Recreation

Major code BS8104

This option focuses upon planning, conducting, and administering recreation programs serving the ill, disabled, aging, and disadvantaged in institutional and community settings. You may qualify for a position serving people with disabilities in the areas of emotional illness, mental retardation, physically handicapped, or aging. Career opportunities are also increasing rapidly in penal and correctional settings and community programs serving the culturally/socially disadvantaged.

Note: If you select this option, you should maintain frequent contact with your therapeutic recreation advisor in order to meet requirements for eligibility to sit for the National Council for Therapeutic Recreation Certification examination.

Health and Sport Sciences

(Select 20 hrs)

HLTH 202	Health Sciences and Lifestyle Choices	4
HLTH 204	Alcohol, Tobacco, and Other Drugs	4
HLTH 205	AIDS Education and Prevention	4
PESS 115	Rhythmics	2
PESS 218	Life Guard Training	2
PESS 220	Water Safety for Instructors	3
PESS 227*	First Aid	3
PESS 228	CPR	1
PESS 230*	Medical Terminology for Health Administrators	4
PESS 327	Instructor's First Aid	3
PESS 328	Instructor CPR	3
PESS 339	Football Officiating	3
PESS 340	Basketball Officiating	3
PESS 341	Baseball Officiating	3
PESS 390* or PESS 391*	Safety Education Risk Management	4

REC 290	Recreational Sport Officiating	3
REC 381*	Management of Recreational Sports	4

Required Professional Recreation Core

REC 200*	Intro to Leisure	4
REC 236*	Field Experience in Recreation	1-3
REC 250*	Recreation Leadership	4
REC 275*	Recreation for Individuals with Disabilities	4
REC 310*	Program Planning and Facilities for Rec.	5
REC 314*	Camping	4
REC 315*	Outdoor Education and Recreation	4
REC 336*	Field Experience in Recreation	3
REC 440*	Internship	16
REC 449*	Administration of Community Recreation	4
REC 460*	Understanding Leisure	4

Recreation Tool Courses

(Select 18 hrs)

PESS 213	Youth and Sports	3
PESS 273	Movement Education and Fund. Skills	3
PESS 274	Sport and Game Skills for Elem. School Children	3
PESS 313	Sport Club Management	3
REC 240	Taxidermy	2
REC 241	Taxidermy II	2
REC 251*	Crafts for Recreation Programs	3

Or select any course from ART, CA 150, DANC, MUS, THAR

Physical Education or Recreation Activities

Select 9 courses from any REC 100-level course (except 199) or PED course.

Required Professional Courses

REC 270*	Intro to Therapeutic Recreation Services	4
REC 376*	Practices in Therapeutic Rec.	4
REC 377*	Administration of Therapeutic Recreation	4
REC 470*	Assessment and Documentation in Therapeutic Rec.	4
REC 471*	Program Design in Therapeutic Rec.	4
REC 472*	Trends and Issues in Therapeutic Recreation	4
BIOS 302* or BIOS 301*	Human Anatomy	6

Note: BIOL 101 Principles of Biology, BIOS 103 Human Biology, or BIOS 170 Intro to Zoology is prerequisite to BIOS 302 or 301.

Select a minimum of 5 hours:

EDSP 270	Classroom Mgt. of Children w/Behavioral Problems	3
EDSP 271	Intro to Ed. of Except. Children and Youth	4
EDSP 378	Principles of Work for Persons with Disabilities	3
EDSP 400	Nature and Needs of SBH	3
EDSP 477	Comm. w/Parents and Professionals in Special Ed.	4
HCCF 160 or PSY 273	Intro to Child Dev. Child and Adolescent Psychology	4
HLTH 413	Health Aspects of Aging	4
HSS 378	Sign Language	4
MUS 181	Intro to Music Therapy	3
PESS 302 or BIOS 352	Biomechanics	4
PESS 333	Adapted Physical Education	4
PESS 485	Perceptual Motor Development in Children	3
PSY 332	Abnormal Psychology	4
PSY 376	Psychological Disorders of Childhood	4
REC 214	Camping for Special Populations	2
REC 301	Leisure Education and Facilitation Techniques	4
REC 430	Principles of Therapeutic Rec. for MR	3
SOC 334	Sociology of Aging	4
SOC 361	Deviant Behavior	4
SOC 363	Juvenile Delinquency	4

*Required

Minor in Recreation

Minor code OR8109

Select 35 hours from:

REC 200	Intro to Leisure	4
REC 250	Recreation Leadership	4
REC 251	Art and Nature Crafts	3
REC 270	Intro to Therapeutic Recreation	4
REC 275	Recreation for Individuals with Disabilities	4
REC 310	Program Planning and Facilities	5
REC 314	Camping	4
REC 315	Outdoor Education and Outdoor Rec.	4
REC 376	Practice in Therapeutic Rec.	4
REC 449	Administration of Community Recreation	4
REC 475	Adventure Programming	3

Honors Tutorial College

35 Park Place

Joseph H. Berman
Dean

Ann C. Brown
Assistant Dean

The Honors Tutorial College offers 25 challenging degree programs to qualified students admitted at the beginning of the freshman or sophomore year. The Honors Tutorial College also administers the Departmental Honors Program, a thesis option for eligible undergraduates in other colleges at Ohio University.

The unique tutorial program is modeled on the educational method used in British universities, notably Oxford and Cambridge. Although other colleges and universities have adopted particular features of this model, Ohio University is the only institution in the United States that has a degree-granting college incorporating all the essential features of the traditional tutorial system.

Goals of the Program

To provide the high-ability student with a flexible and personalized alternative at the undergraduate level.

To provide an intensified learning experience by:

Replacing lecture with tutorial in your major.

Permitting you to progress at an optimum pace.

Promoting advanced competency in a specific field.

Encouraging you to develop critical perceptions as well as creative and intellectual independence.

Acquainting you with accomplished scholars through the one-to-one tutorial relationship.

Fostering a living-learning environment in a special residence hall.

Providing preprofessional students with practical training through internships and other individually arranged educational experiences.

A One-to-One Learning Experience

The most important aspect of the program is the tutorial, required in your major, occasionally available in a secondary field. During this weekly conference you and the tutor discuss previously assigned topics, posing new questions and problems for later discussion. Since you are expected to participate actively during tutorials, independent preparation occupies much of your time between sessions.

The rapport established in this one-to-one relationship enhances learning and expedites progress in the field. It also ensures that your ability and specific interests are reflected in the content of the tutorials.

Honors Tutorial Majors

Through formal arrangements with various academic departments in the university, the Honors Tutorial College offers majors in:

Biological Sciences
Business
Chemistry
Computer Science
Dance
Economics
Engineering Physics
English
Environmental and Plant Biology
Film
French
Geography
Hearing and Speech Sciences
History
Interpersonal Communication
Journalism
Mathematics
Philosophy
Physics/Astronomy
Political Science
Social Work
Sociology/Sociology Criminology
Spanish
Telecommunications
Theater

Only these disciplines are available as tutorial majors at the present time. Certification in secondary education may be added to the tutorial degree in another major by a limited number of students.

Participating departments have well established research facilities, and the tutors are full-time faculty with many years of professional experience.

Tutorial students preparing for careers in law may major in any of the above areas or choose special prelaw programs in economics, history, philosophy, or political science.

Detailed descriptions of departmental programs in tutorial studies can be obtained by contacting:

Honors Tutorial College
Ohio University
35 Park Place
Athens OH 45701-2979
telephone 740-593-2723
fax 740-593-9521
e-mail hcdept@ouvaxa.cats.ohiou.edu

Individualized Program

To ensure both supervised structure and independent choice, each participating department has a director of studies who coordinates the programs of tutorial students in that major. Combining departmental requirements and your interests, the director helps to develop a curriculum that best meets your needs.

While preparation for advanced training in a particular discipline remains the overall objective of the tutorial program, pursuit of other intellectual or creative inclinations is encouraged.

Major requirements generally include a sequence of tutorials, collateral studies, lectures, seminars, comprehensive examinations, and, in some areas, laboratory, field, or studio work. In many departments, you will also complete a research thesis or creative project under the direction of a faculty member.

Examinations

In most tutorial majors, you will take comprehensive examinations. When the tutor judges that you have thoroughly mastered all relevant material, a comprehensive examination is given to test your competency, either in the field as a whole or in a selected portion of it. Like the tutorial, these examinations require, on an expanded scale, that you assimilate information and consider it again in the light of other knowledge and experience.

Since the tutorial system works best when the faculty-student relationship is free from the pressure of formal examinations, departmental committees prepare and grade comprehensive examinations. However, the tutor may, at any time, use a variety of methods to test your grasp of ideas and to assess your progress. This process not only intensifies your participation in tutorials but also forms the basis for the tutor's quarterly evaluation, a report notifying both the college and you that satisfactory progress is being made or that specific problems require attention.

Degree Requirements

To earn a bachelor's degree in the Honors Tutorial College, you must fulfill all academic requirements established by the department for your tutorial major and have at least a 3.0 overall grade-point average (g.p.a.). You must also satisfy the university's English composition requirement. To foster measurable competency in a given field, the Honors Tutorial College does not mandate a fixed hour or residency requirement or a specific course distribution (except as required by individual departments). To earn a second bachelor's degree in another college at Ohio University, you also must complete all the requirements established by the second college.

Academic departments participating in the Honors Tutorial College set their own tutorial degree requirements, including required courses outside the major field. In this respect, the tutorial curriculum is much like that of a graduate program. Each department offering a tutorial program has developed a course of study designed to give you mastery of the field at an advanced undergraduate level. When the department is satisfied that all tutorial requirements have been met, you may graduate from Ohio University with a degree in that major.

Degrees conferred by the college include the Bachelor of Fine Arts in (major), Bachelor of Science in Journalism, Bachelor of Science in Communication in (major), Bachelor of Arts in (major), Bachelor of Science in (major), and Bachelor of Business Administration.

Placement of Graduates

The Honors Tutorial College has earned a reputation for graduate and professional school placement. To date, most students wishing to continue their education have been placed in master's programs, doctoral programs, law schools, and medical schools. Graduates of the Honors Tutorial College frequently find their level of preparation comparable to that of students entering the second year of graduate work.

Other graduates have readily found employment in fields related to their undergraduate work, particularly in journalism, theater, hearing and speech, and business. A number of graduates in the humanities have found teaching or research jobs. With a relatively small enrollment in this degree program, faculty tutors and college administrators guide you personally toward your graduate interests and career opportunities.

Housing Privileges

If you are admitted to the Honors Tutorial College you are invited to live in Hoover House, an intensive-study dormitory on the New South Green. A computer laboratory in this residence hall is available for all students in the college. You may use your own computer or those in the laboratory. Located among upperclass residence halls, Hoover House provides an environment conducive to mature self-discipline and intellectual dialogue. While most tutorial students choose this unique living-learning opportunity, alternative university housing is available for those who prefer it.

Selectivity and Admission

Tutorial studies are available only to the well qualified, highly motivated student who wants to pursue one of the 25 academic areas listed above. You must apply for admission to a specific discipline.

With the approval of participating departments, the college admits a limited number of majors each year. Students enter the program at the freshman level.

The college requires excellent academic credentials. Standardized test scores and high school records help to determine your eligibility. To apply, fill out the standard Ohio University application and submit it with the required materials to the Honors Tutorial College. All materials must be complete and received no later than December 15. After your file has been reviewed, you will be notified if you have been selected for an admission interview, which will be scheduled in January of the year you wish to enter the college. Unsuccessful candidates may reapply provided that they attain at least a 3.5 g.p.a. after two or more quarters in another college.

Departmental Honors Program

Outstanding undergraduate students at Ohio University who are not students in the Honors Tutorial College may choose to earn departmental honors in their major. A thesis is required and, depending on the major, may be either an expository or creative piece of original work, the result of supervised research, or a collection of artistic endeavors. A departmental thesis advisor helps in the decision of an appropriate project and guides you toward completion of the thesis.

Before enrolling for departmental honors, you should discuss the project with the faculty member who will serve as your thesis advisor. Departments determine eligibility for the program and suitability of the proposed thesis. After the proposal is approved by the department, apply for departmental honors at the Honors Tutorial College, 35 Park Place.

You should make an appointment to discuss your thesis with the dean of the Honors Tutorial College at least two quarters before graduation to ensure that the proper recognition can be given at Commencement and inscribed on the degree. When applying for graduation, be sure to indicate on the form that you are completing an honors project.

Following departmental approval of the completed thesis, you submit it to the Honors Tutorial College for final confirmation. To graduate with departmental honors, you must have satisfied the honors criteria required by your major department (such as a particular g.p.a.). You are advised to start planning this program during your junior year.

University College

140 Chubb Hall

Patricia Bayer Richard
*Dean and Associate Provost
for Undergraduate Studies*

William L. Allen
Associate Dean

Ted Bernard
Assistant Dean

Carolyn Henderson
*Director, Academic Advancement
Center*

Karin Sandell
*Director, Center for Teaching
Excellence*

Sherrie Gradin
*Director, Writing Across
the Curriculum*

Laura Cross Chapman
Andrew H. Cinoman
Tammy Kahrig
Lora Munsell
Academic Advisors

University College serves both undecided students who are exploring the university's options before selecting a major and degree program and students who are seeking the Bachelor of Specialized Studies, the Bachelor of Criminal Justice, or associate's degrees.

University College advances the mission of Ohio University by providing institutional leadership across colleges to promote teaching and learning. The college provides a number of university-wide services. University College staff members manage orientation and advisement programs, such as Precollege, that assist you in reviewing your interests, planning academic programs, and adjusting to university life. University College also includes the Center for Teaching Excellence and the Academic Advancement Center, which support teaching and learning.

Majors

Associate in Applied Business

Accounting Technology
Business Management Technology
Computer Science Technology
Office Technology

Associate in Applied Science

Aviation Technology
Child Development
Electronic Media
Electronics Technology
Environmental Engineering Technology
Equine Studies
Hazardous Materials Technology
Human Services Technology
Law Enforcement Technology
Medical Assisting Technology
Nursing
Security/Safety Technology
Travel and Tourism

Associate in Arts

Arts and Humanities Emphasis
Social Sciences Emphasis

Associate in Individualized Studies

Associate in Science

Bachelor of Criminal Justice

Bachelor of Specialized Studies

Admission Requirements

Any Ohio University student can be admitted to University College as an undecided student. A separate application is required to enter the Associate in Individualized Studies program, the Bachelor of Criminal Justice program, and the Bachelor of Specialized Studies program. The Associate in Applied Science in nursing program has additional admission requirements but does not require a separate application. See descriptions of each program later in this section for additional information.

Advising

No single activity of University College is given a higher priority than academic advising and counseling. University College faculty advisors and academic advisors strive to inform you about academic options and to assist you with decisions about how you can best use the university to promote your learning and development.

Undecided students, or those who wish to investigate academic options before selecting a major, are admitted to University College. Undecided students typically are assigned two advisors. One is a member of the faculty; the other is a member of the University College

advising staff. Both will assist you with information and advice about university programs, choosing a major program of study, and university requirements. If you are an associate's degree, specialized studies, criminal justice, or nondegree student, you are also assigned a University College advisor to help you plan an appropriate program. In addition, students in any other college may seek out a University College advisor when their questions touch on university-wide issues or University College programs, or when they are investigating a change of program.

If you are in University College as an undecided student, you are encouraged to follow the requirements of degree programs. If you have a tentative major in mind, you should refer to those requirements outlined elsewhere in this catalog. In addition, University College expects you to be thoroughly familiar with the Academic Policies and Procedures section of this catalog.

Academic and Other Requirements

If you are a University College undecided student, you are expected to move into a major program by the end of your second year. All majors require you to complete residency hours, which may be up to two years.

Professional Certification or Licensure

Two University College associate's degree programs, child development and nursing, meet the requirements for professional certification or licensure. Prekindergarten associate teacher certification in Ohio is available for those students who complete the Associate in Applied Science degree in child development. If you complete the two-year nursing program, you will be eligible to take the National Council Licensure Examination for Registered Nurse.

Special Programs

College Adjustment Program (CAP)

Since 1979 Ohio University and the U.S. Department of Education* have supported the College Adjustment Program (CAP) at the Academic Advancement Center. CAP is funded to provide services and opportunities to help approximately 275 qualified students adjust to the challenges of college life. CAP has a strong record of aiding in student retention and graduation.

The following features are some examples of CAP's services, designed to aid students during their college education:

- Special academic courses in learning strategies and computing at Ohio University
- Educational and social activities
- Free group and individual tutoring
- Help in locating sources of financial aid
- In-depth academic advising and schedule planning
- Career planning and guidance
- Individual assistance in university-required math and writing courses
- Support for students placed on academic probation
- Student peer advisors for assistance and guidance.

The following criteria are used to determine eligibility for participation in CAP:

- 1 Demonstration of academic need, based on ACT scores ≤ 20 or SAT scores ≤ 950 and high school rank ≤ 60 th percentile.
- 2 First generation college student (neither parent earned a four-year college degree).
- 3 Low income status, determined by federal standards.
- 4 Documented disability (e.g., learning disability, physical disability, etc.).

Applicants must meet criterion #1 and at least one or more of #2, #3, or #4 to be considered for eligibility. An applicant

does not have to meet all criteria.

Applicants must also be U.S. citizens or permanent U.S. residents with fewer than 60 quarter hours of college credit earned in order to be eligible for CAP.

If, when admitted to Ohio University, you are identified as potentially eligible for CAP, you will receive information on the program prior to the university's orientation period. Already-enrolled students with fewer than 60 hours earned may also apply.

Questions may be directed to the Academic Advancement Center, Alden Library, S93-2644, or to bearddd@ohio.edu.

*Funded by a Student Support Services grant of the TRIO Programs, United States Department of Education.

General Education

In 1979 the faculty of Ohio University adopted a comprehensive General Education Program required of all baccalaureate degree students. University College is responsible for coordinating this program. The goal of general education is to broaden and enrich the educational experience of all undergraduate students.

Support of Teaching and Learning Initiatives

University College houses the Center for Teaching Excellence, which provides support for teaching innovation and the dissemination of the best classroom practices. The college also fosters learning initiatives such as the development of student learning communities. In recent years it has offered the First Year Enrichment Program, a learning community focused on environmental literacy, and has worked with the Center for Community Service to develop service-learning courses in which community service and course content complement each other. You can obtain more information about these programs from any University College staff member.

Precollege Orientation

Each year during July, August, and September, University College conducts Precollege Orientation, designed to acquaint you and your parents with the programs of the university. You will meet with faculty, staff, and student advisors to plan an academic program, complete a class schedule, and register for your first quarter. You will also learn about the wide variety of social and group activities available on campus while becoming acquainted with other students in your college. Orientation programs are also held before the winter, spring, and summer quarters for first-year and transfer students.

First-Year Seminar Course

University College sponsors a special course for all new students, UC 115 The University Experience. The course is designed to help first-quarter students adjust to the new experiences of university life and take advantage of what the university offers. Topics covered include university resources, time management, university policies and procedures, academic major selection, and career planning.

University Professor Program

Another of University College's efforts to enhance and reward undergraduate teaching and learning is the University Professor Program. To acknowledge outstanding undergraduate teaching, Ohio University students select University Professors on the Athens campus each year. University Professors are tenure-track faculty members who have demonstrated teaching excellence.

Upon selection by the student University Professor Selection Committee and final appointment by the provost, each professor is granted a release from part of his or her normal teaching duties and receives \$2,000 for professional development. The University Professor uses this opportunity to develop and teach two classes of his or her own choosing.

The University Professor Selection Committee consists of representatives from the undergraduate student body.

Degrees Offered

Bachelor of Criminal Justice

Major code SA2209

The upper-division Criminal Justice program is designed for students who have previously completed an associate's degree program in a technical area related to criminal justice, such as law enforcement, corrections technology, police administration, or human services. If you hold such a degree from a technical or community college, or from a regional campus of Ohio University, you are eligible to apply to the Criminal Justice program and may earn a baccalaureate degree by completing a minimum of 96 additional hours of Ohio University work.

This program offers students with technical education background the opportunity to broaden their exposure to liberal higher education while acquiring the necessary specialization to qualify for careers in such fields as parole and probation, forensic science, adult and juvenile corrections, and police administration. Criminal justice students also may prepare for law school or for further study in graduate or professional schools.

The flexible interdisciplinary curriculum is composed of a broad range of courses from the social and behavioral sciences, humanities, natural sciences, and professional disciplines, all of which make a contribution to the complex field of criminal justice. You may individualize your program of study to a significant degree through elective courses.

To enter the Criminal Justice program, you must complete a separate degree application form in addition to the application to the university and submit a college transcript showing that you have completed an associate's degree in an appropriate technical field. Applications are available from the University College office or any regional campus student services office. Upon admission, you will be assigned an academic advisor who will assist you in completing your approved program of study.

Degree requirements

- 1** Earn 192 credit hours, including at least 96 hours of Ohio University work.
- 2** Of the 96 hours of Ohio University work, 45 hours must be at the 300 level or above.
- 3** Complete the General Education Requirements (Tier I, II, III). Some courses taken to complete the associate's degree may be equivalent to courses that fulfill these requirements.
- 4** Complete no fewer than 12 courses from within the following core areas:

Area I: Basic skills. Choose three courses, one from A, B, and C—(A) ENG 305J, 308J, PRCM 325J; (B) INCO 215, 304, 410, 420; (C) MATH 250, PSY 120.

Area II: Social and political systems. Choose three courses, one each from A, B, and C—(A) AAS 254, 370, HIST 315B, SOC 329, 470, 471; (B) PHIL 442, POLS 404, 409, 477, SOC 260*, 362*, 466; (C) POLS 306, 410, SW 390, SOC 309, 464.

Area III: Human behavior. Choose three courses, at least one from A and at least one from B. Do not take both SOC 210 and PSY 336—(A) AAS 440, PSY 233, PSY 336 or SOC 210, SW 380, SOC 211; (B) BIOS 390H, PSY 332, 337, SOC 361, 363.

Area IV: Organization skills and management. Choose three courses, at least one from A and at least one from B. Do not take both CS 120 and MIS 201; do not take both MGT 200 and 202—(A) ACCT 101, CS 120* or MIS 201, HRM 420, MGT 200 or 202, POLS 412; (B) BUSL 255, 356, HRM 425, MGT 340.

The remaining hours beyond the core requirement will be chosen in consultation with an academic advisor on the basis of your educational goals and career interests. For qualified students without prior professional experience in criminal justice, internship and field experience programs may be arranged.

Courses taken to complete the associate's degree cannot additionally fulfill core requirements for the baccalaureate degree. Credit earned through Experiential Learning may not be accepted to meet core curriculum requirements.

*Graduates of Ohio University's law enforcement technology program cannot count these courses toward the criminal justice core.

Bachelor of Specialized Studies

Major code SA1112

The Bachelor of Specialized Studies program affords undergraduate students at Ohio University the opportunity to design an area of concentration, which stands as the equivalent of an established major. The program permits you to combine available curricula to create a unique field of study.

The Bachelor of Specialized Studies degree program reflects the recognition that degree programs, as varied as they are at Ohio University, cannot satisfy the legitimate educational requirements of all students. Through specialized studies, you may construct an individualized degree.

To enter the specialized studies program, you must complete an application, available in the University College office or at a regional campus student services office, and have it reviewed by a University College advisor or regional campus student services staff member. You must consult with and gain approval from two faculty members in the preparation of your program, one of whom must be from your area of concentration. Final admission is granted only upon successful review of the application by the Bachelor of Specialized Studies review committee, which meets quarterly to consider applications. You will receive a letter indicating the decision of the review committee.

As a student in the Bachelor of Specialized Studies program, you may complete an academic minor or minors if the courses taken to meet the minor requirements are not included in the Bachelor of Specialized Studies area of concentration plan. You need to indicate your intention to complete a minor at the time you submit your Bachelor of Specialized Studies application.

Up to 48 hours of credit earned through the Experiential Learning Program may be applied to the Bachelor of Specialized Studies degree program. A maximum of 44 quarter hours from the College of Business may be included in a Bachelor of Specialized Studies degree program.

To submit an application to the specialized studies program for consideration, you must

- 1 Be currently enrolled as a degree-seeking student.
- 2 Have achieved sophomore or higher rank.
- 3 Have earned an accumulative g.p.a. of 2.0 or above.

To graduate with a Bachelor of Specialized Studies degree, you must

- 1 Earn 192 credit hours, of which at least 90 must be courses with catalog numbers at the 300 level or above as shown in this catalog.
- 2 Complete no fewer than 45 credit hours of credit (the degree residency requirement) after being admitted to the specialized studies program. This total excludes any transfer, transient, Course Credit by Examination, Independent Study coursework, etc., for which the initial registration occurred prior to application to the specialized studies program.
- 3 Complete a minimum of 45 credit hours in the self-designed area of concentration approved by the Bachelor of Specialized Studies review committee. The area of concentration can include courses that are completed, current, and planned at the time of application. The courses included as current and planned in the concentration become requirements for graduation subject to change only by prior permission from a University College advisor and, in some cases, the Bachelor of Specialized Studies review committee.
- 4 Complete the university General Education Requirements.
- 5 Complete the minimum of 48 credit hours of Ohio University coursework to satisfy the university residence requirement.

Applications may be submitted at any time during the quarter. To have current credit hours included as part of the residency requirement, applications must be submitted by the end of the fourth week of fall, winter, or spring quarter, or the end of the second week of either summer session.

Associate's Degrees

General Requirements

The minimum requirement for an associate's degree is the completion of 96 credits with a 2.0 accumulative g.p.a. at graduation. A maximum of 24 credits earned through the Experiential Learning Program may be applied to any associate's degree. You must earn at least 30 quarter hours of resident credit at Ohio University; if you complete fewer than 60 quarter hours of Ohio University credit, you must earn at least 8 of your final 15 hours as resident credit.

Information about all associate's degree programs is available through either the regional campuses or University College. If you plan to pursue an associate's degree, you must consult with the director of the specific program, a member of the University College staff, or a student services staff member at one of the regional campuses.

If you plan to earn an associate's degree, you must complete an Application for Update of Program(s), available from any college office or regional campus student services office. If you plan to earn a baccalaureate degree after earning the associate's degree, you must complete an Application for Update of Program(s) to add the associate's degree program as a secondary code. Your records will remain in University College if that is your current college; if not, your records will remain in the college responsible for your baccalaureate program.

Policy on Second Associate's Degrees

You cannot earn the same associate's degree twice. Furthermore, you are not permitted to earn both the A.A. and A.S. degrees. If you have already earned the A.I.S. degree, you are not permitted to earn either the A.A. or A.S. degree. Although it is possible to complete an A.A.B. or A.A.S. degree with a double major, you can earn the degree only once.

Application Toward Bachelor's Degree

Credit earned while enrolled in an Ohio University associate's degree program will be applied toward an Ohio University baccalaureate program. However, this shift may involve more than two additional years to complete the four-year requirements because prerequisite courses may not have been completed, and technical courses often apply only as elective courses in four-year degree programs.

If you intend to complete a baccalaureate degree, you should complete Ohio University General Education Requirements while working toward your associate's degree.

Associate's Degree After a Baccalaureate Degree

If you have already earned a baccalaureate degree, you may pursue an Associate in Applied Business or Associate in Applied Science degree if the two-year degree is in a field other than that in which your baccalaureate degree was earned. It is also permissible for you to pursue an Associate in Individualized Studies degree after earning a baccalaureate degree, depending on the rationale for doing so and the desired area of concentration. The Associate in Arts or the Associate in Science degree is not an appropriate objective if you have already earned a baccalaureate degree.

Programs of Study

Associate in Arts/Associate in Science Degrees

If you are planning to transfer from Ohio University to another institution, you are advised to complete the Transfer Module as part of your A.A. or A.S. degree. See the Admissions section of this catalog.

These degrees are available on all campuses. Each degree requires a minimum of 96 hours. A maximum of 24 credits earned through the Experiential Learning Program may be applied to the A.A. or A.S. degree. At least 30 of the total credits earned toward the A.A. or A.S. must be Ohio University credits. Technical courses count only as electives for both the A.A. and A.S. degrees.

If you plan to earn either the A.A. or A.S. degree, contact the associate's degree coordinator in University College so that the valid major code can be properly recorded.

Associate in Arts—Arts and Humanities Emphasis Major code AA1101

You must meet the following requirements to earn an A.A. with arts and humanities emphasis. See the following list for the courses that count under each area.

Arts and Humanities (must include Tier I English composition)	30
Natural Science, Applied Science, and Quantitative Skills (must include Tier I quantitative skills)	15
Social Sciences	15
Electives	36

Minimum required for graduation: 96

Associate in Arts—Social Sciences Emphasis Major code AA1110

You must meet the following requirements to earn an A.A. with social sciences emphasis. See the following list for the courses that count under each area.

Arts and Humanities (must include Tier I English composition)	15
Natural Science, Applied Science, and Quantitative Skills (must include Tier I quantitative skills)	15
Social Sciences	30
Electives	36

Minimum required for graduation: 96

Associate in Science Major code AS1104

You must meet the following requirements to earn an A.S. See the following list for the courses that count under each area.

Arts and Humanities (must include Tier I English composition)	15
Natural Science, Applied Science, and Quantitative Skills (must include Tier I quantitative skills)	30
Social Sciences	15
Electives	36

Minimum required for graduation: 96

You may select courses for the A.A. and A.S. degrees from the following three areas:

Arts and Humanities	Dance 150, 170, 171, 351, 352, 353, 370, 471, 472, 473	Humanities
African American Studies 110, 150, 210, 211, 250, 310, 350, 355, 356	English (except 150)	International Literature: Modern Languages
Art 110	Film 201, 202, 203	Interpersonal Communication 101
Art History	Foreign Languages (Arabic, Chinese, French, German, Indonesian/Malaysian, Italian, Japanese, Russian, Spanish, Swahili)	Music 100, 120, 124, 125, 150, 321, 322, 323, 421A-F, 427, 428
Classical Archaeology (except 211, 212, 213)	History 121, 122, 123, 314A-F, 328, 329A-C, 330, 331, 351, 352, 353A-B, 354, 356A-C, 357, 370, 389	Philosophy (except 120)
Classical Languages (Latin, Greek)		Theater 150, 170, 171, 270, 271, 272
Classics in English		Women's Studies
Comparative Arts		
Natural Science, Applied Science, and Quantitative Skills	Computer Science	Industrial Technology 110
Anthropology 201, 492, 496	Engineering and Technology 280, 320, 350, 470	Mathematics (except 101, 102)
Astronomy	Environmental and Plant Biology	Mechanical Engineering 100
Biological Sciences	Geography 101, 201, 260, 302, 303, 411	Microbiology
Biology 101	Health Sciences 202	Philosophy 120
Chemical Engineering 331	Hearing and Speech Sciences 108	Physical Science
Chemistry and Biochemistry (except 115)	Human and Consumer Sciences-Food and Nutrition 128	Physics
Communication Systems Management 101		Psychology 120, 221, 226, 312, 314
Social Sciences	History (except those courses listed in Arts and Humanities)	Management 200
African American Studies (except those courses listed in Arts and Humanities)	Human and Consumer Sciences-Child and Family Studies 160	Political Science
Anthropology (except 201, 492, 496)	Human and Consumer Sciences-Retail Merchandising 250	Psychology (except 120, 221, 226, 312, 314)
Business Law 255, 370, 442, 475	International Studies 103, 113, 118, 121	Social Work
Classical Archaeology 211, 212, 213	Interpersonal Communication 351, 352, 353	Sociology
Economics	Journalism 105	Telecommunications 105
Geography (except 101, 201, 260, 302, 303, 411)	Linguistics	

Associate in Individualized Studies Degree Major code SAS508

If you wish to pursue a two-year program of study in a field other than those available through one of the other associate's degree options, you may design your own program of study to meet particular goals through the Associate in Individualized Studies degree program, available on the Athens, Chillicothe, Lancaster, and Zanesville campuses.

To be admitted to the program, you must complete an application, available in the University College office or at one of the regional campuses, and schedule an interview with a University College or regional campus advisor. Final admission to the program is granted only upon review of the application by the A.I.S. review committee. Note: If you have previously earned an associate's degree, you are not permitted to earn the A.I.S. degree.

Although there are no specific course or academic area requirements (other than Tier I freshman English and quantitative skills), the application must outline your intended course of study, and it must include a proposed area of concentration.

You must consult with two faculty members in the preparation of your program, one of whom must be from your area of concentration.

To submit an application for admission to the program, you must currently be enrolled as a degree-seeking student. To graduate with an Associate in Individualized Studies degree, you must

- 1 Earn 96 quarter hours.
- 2 Earn at least 30 quarter hours after admission to the A.I.S. program (degree residency requirement).
- 3 Complete university Tier I freshman-level requirements in English composition and quantitative skills.
- 4 Complete an approved area of concentration, consisting of at least 30 credit hours, which has coherence and educational purpose equivalent to an established major.

Applications may be submitted at any time during the quarter. To have current credit hours included as part of the residency requirement, applications must be submitted by the end of the fourth week of fall, winter, or spring quarter, or the end of the second week of either summer session.

A maximum of 24 credits earned through the Experiential Learning Program may be applied to the A.I.S. degree.

Accounting Technology (A.A.B.)**Major code AA5002**

Ohio University–Lancaster and Ohio University–Southern offer a two-year program for accounting technicians leading to the Associate in Applied Business degree. Graduates have obtained employment with hospitals, school boards, CPA firms, retail stores, and drug stores, with duties including payroll, accounts receivable, general ledger bookkeeping, auditing, and tax return preparation.

Core Requirements: 40–43 hours

ATCH 103	Financial Acct. Procedures	4
BMT 115	Found. of Quality and Cont. Improvement	4
BU5L 255	Law and Society	4
CTCH 125	Intro to Computers	4
ECON 103	Prin. of Microeconomics	4
ENG 151	Freshman Composition	5
INCO 103	Fund. of Public Speaking	4
MATH 113	Algebra (or higher Tier I quantitative skills)	4–5
OTEC 230	Business Comm. II	4
Tier II	Social Sciences	3–5

Major Requirements: 54–56 hours

ATCH 104	Financial Acct. Procedures	4
ATCH 105	Financial Acct. Procedures	4
ATCH 203	Tax and Government Reporting Procedures	4
ATCH 204	Electronic Data Proc. Acct. Procedures	4
ATCH 205	Manufacturing Acct. I	4
ATCH 206	Manufacturing Acct. II	4
ATCH 209	Business Statistics	4
ATCH 225	Federal Income Tax Procedures	4
ATCH 241	Auditing Procedures	4
BMT 110	Intro to Management	4
BMT 140	Concepts of Marketing	4
ECON 104	Prin. of Macroeconomics	4
OTEC 121	Keyboarding I	4
or OTEC 122	Keyboarding II	
or OTEC 123	Keyboarding III	
	Electives	2–4

Minimum required for graduation: 96**Aviation Technology (A.A.S.)****Major code AA7250**

University College and the Department of Aviation offer an Associate in Applied Science in aviation technology on the Athens campus. Career opportunities in commercial aviation as FAA-certified pilots and air crew members as well as positions in related aerospace industries may be available upon completion of this program. If you are interested, contact the Department of Aviation, located at the airport.

You must receive a grade of C (2.0) or better in all ground school courses that require an FAA written test in order to progress to a flight course.

Aviation is a highly skilled profession. Therefore, if you are enrolled in an aviation flight course, you must receive a B- or higher to continue in the course sequence.

Technical Requirements: 62 hours

AVN 100	Intro to Aviation	4
AVN 110	Basic Aeronautics	4
AVN 240	Private Pilot Flight Course	4
AVN 300	Aviation Laws and Regs.	4
AVN 305	Aviation Weather	4
AVN 310	Adv. Aeronautics	4
AVN 315	Aviation Safety	4
AVN 320	Adv. Aircraft Systems	4
AVN 340	Cross Country Flight	4
AVN 350	Instrument System Regulations and Procedures	4
AVN 360	The National Airspace System	4
AVN 400	Instrument Flight	4
AVN 405	Adv. Cross Countries	4
AVN 420	Commercial Flight	4
AVN 430	Multi-Engine Flight	2
AVN 480	General Aviation Operations and Mgt.	4

The following flight courses must be taken at Ohio University: AVN 400, 405, 420, and 430. No transfer or experiential credit will be given.

General Requirements: 43–44 hours

CS 120	Computer Literacy	4
ECON 103	Prin. of Microeconomics	4
ECON 104	Prin. of Macroeconomics	4
ENG 151	Freshman Composition	5
GEOG 101	Physical Geography	5
INCO 103	Fund. of Public Speaking	4
MATH 115	Pre-Calculus or higher Tier I MATH	4–5
MGT 200 or MGT 202	Intro to Management Management	4
POLS 101	American National Govt.	4
PSY 101	General Psychology	5

Minimum required for graduation: 96

Business Management Technology (A.A.B.)**Major code AA5006**

Ohio University–Chillicothe, Ohio University–Lancaster, and Ohio University–Southern offer a two-year program of study in business management technology leading to the Associate in Applied Business degree. The program offers theoretical concepts taught by instructors who bring practical hands-on knowledge to the classroom. Courses offered take a management approach to the functional areas of business operations; i.e., sales, marketing, supervision, planning, advertising, purchasing, etc. The principles of continuous quality improvement are used throughout the program. For additional information, contact the director of business management technology at your campus.

Core Requirements: 43–44 hours

BMT 110	Intro to Management	4
BMT 115	Found. of Quality and Cont. Improvement	4
BMT 140	Concepts of Marketing	4
BMT 150	Elements of Supervision	4
BMT 210	Managing Finance in Business	4
BMT 230	Concepts of Sales	4
BMT 250	Practical Personnel Procedures	4
BMT 275	Managerial Planning	4
BMT 285	Government and Business	4
BMT 288	Computer Applications for Management	4
BMT	Elective	3–4

Related Basic Requirements: 27 hours

ATCH 103	Financial Acct. Procedures	4
ATCH 104	Financial Acct. Procedures	4
BUSL 255	Law and Society	4
INCO 103	Fund. of Public Speaking	4
OTEC 130	Business Communication I	4
OTEC 227	Communication Processing III	3
OTEC 230 or CTCH 125	Business Comm. II Intro to Computers	4

General Requirements: 26–28 hours

ECON 103	Prin. of Microeconomics	4
ECON 104	Prin. of Macroeconomics	4
ENG 151	Freshman Composition	5
PSY 101	General Psychology	5
Tier I	Quantitative Skills	4–5
Tier II	Social Sciences	4–5

Minimum required for graduation: 96**Child Development (A.A.S.)****Major code AA1106**

University College and the School of Human and Consumer Sciences offer an Associate in Applied Science in child development on the Athens and Lancaster campuses. The program meets the requirements for prekindergarten–associate teacher certification in Ohio. To be eligible for certification you must have a g.p.a. of 2.5 or higher. Consult with University College, the director of human and consumer sciences in Athens, or the director of child development at the Lancaster campus for additional information, including employment opportunities and continuation into the baccalaureate degree program.

Note: The child development program is currently being revised, and the requirements below may be changed. Contact the director of associate's degrees in University College for current information.

Core Requirements: 61–64 hours

HCCF 160	Intro to Child Dev.	4
HCCF 270	Family Living	3
HCCF 299	Soph. Practicum	3
HCCF 361	Guid. and Classroom Mgt. in Early Childhood	3
HCCF 363	Creative Exper. in Early Childhood	4
HCCF 364	Premath and Science with Young Children	4
HCCF 365	Infant and Toddler Education	3
HCCF 366	Practicum in Early Childhood Education*	6
HCCF 371	Family Development	3
HCFN 128	Intro to Nutrition	4
HSS 108	Intro to Comm. Disorders	5
MUS 160 or MUS 262	Music Fundamentals** Music in Early Childhood	3
LING 270 or HSS 310 or PSY 307 or EDEL 321	The Nature of Language Language Development Psycholinguistics Children's Literature**	3–5
EDCI 203	Technological Appl. in Education	4
or CS 120	Computer Literacy	
EDSP 270	Classroom Mgt. of Child. with Prob. Behaviors I***	3–4
or EDCE 410 or INCO 410	Human Relations*** Cross-Cultural Comm.***	
EDSP 271	Intro to Educ. of Except. Children and Youth	3
PESS 227	First Aid	3

*HCCF 366 is a half-day student teaching experience. You must sign up one year in advance.

**These courses have prerequisites that will prevent you from registering for them through TRIPS. To take one of these courses, you must obtain permission from the instructor.

***These courses require you to have earned up to 90 hours (junior rank) before you can register for them through TRIPS. If you wish to take one of these courses before you have earned junior rank, you must obtain permission from the instructor.

General Education Requirements: 39–40 hours

Tier I	Freshman Composition	5
Tier I	Quantitative Skills	4–5
Tier II	Breadth of Knowledge	30

Note: HCCF 160, HCFN 128, and HSS 108 count toward the 30 hours for Tier II.

Minimum required for graduation: 96

Computer Science Technology (A.A.B.)**Major code AA5010**

Ohio University–Lancaster offers a two-year program leading to the Associate in Applied Business degree in computer science technology. Courses offered take a business approach to the functional areas of computer programming, systems analysis, and network administration. Contact the director of computer science technology for additional information, including employment opportunities and continuation into the baccalaureate degree program in business.

Core Requirements: 40–43 hours

ATCH 103 or ACCT 101	Financial Acct. Proc. Financial Accounting	4
ATCH 104 or ACCT 102	Financial Acct. Proc. Managerial Accounting	4
BUSL 255	Law and Society	4
CTCH 125	Intro to Computers	4
ECON 103	Prin. of Microeconomics	4
ENG 151	Freshman Composition	5
INCO 103	Fund. of Public Speaking	4
MATH 113 or other Tier I Math (except PHIL 120)	Algebra	4–5
MATH 250 or OTEC 230 or QBA 201	Intro to Prob. and Stat. I Business Communication II Intro to Bus. Statistics	4
Tier II	Social Sciences	3–5

Major Requirements: 51 hours

CTCH 133	Prog. and Design I	5
CTCH 134	COBOL Programming I	5
CTCH 160	Data Communications	3
CTCH 161	Computer Networks	4
CTCH 162	Client Server Systems	3
CTCH 233	Prog. and Design II	5
CTCH 234	COBOL Programming II	5
CTCH 240	C/C++ Programming	5
CTCH 285	Database Management	4
CTCH 291A	Systems Analysis I	4
CTCH 291B	Systems Analysis II	4
PHIL 120	Principles of Reasoning	4

Minimum required for graduation: 96

Electronic Media (A.A.S.)**Major code AA5013**

Ohio University–Zanesville and Ohio University–Southern offer a two-year program of study leading to an Associate in Applied Science in electronic media. The program is founded on the belief that through intensive individualized instruction in a hands-on atmosphere, you can prepare in only two years for a beginning position in the electronic media (radio or TV stations, cable TV, or production houses).

Along with those who want a production-intensive education, high school graduates who are not academically prepared to begin their college careers in the School of Telecommunications on the Athens campus can benefit from the associate's program. The program presents you with the opportunity to sharpen your skills before relocating to the School of Telecommunications on the Athens campus. More than 90 percent of those students who complete the associate's degree and then relocate to Athens secure a bachelor's degree. (A 3.0 g.p.a. is expected for relocation to Athens.) Others who complete the A.A.S. degree move immediately into communications positions.

The radio-TV studios feature the latest in multitrack audio recording, radio operations, and computerized video editing equipment. The state-of-the-art facilities, broadly based curriculum, small classes, and internships have proven invaluable for students who want to obtain a full view of the field of electronic media. The department is particularly proud of the fact that between 75 and 95 percent of all electronic media students spend time as interns or part-time employees at area stations during enrollment. Recent graduates are now working throughout the United States in the communication industry.

Technical Requirements: 44 hours

EM 101	Intro to Electronic Media	3
EM 122	Radio-Television Performance	4
EM 211	Audio Production-Direction	4
EM 214	Advanced Audio Production/Performance	2
or 217	Advanced Video Production	
EM 216	Intro to Video Production	4
EM 257	Adver. in the Broadcast and Cable Media	4
EM 289A or 289V	Broadcast Workshop (1 cr. hr. each)	3
TCOM 110	Telecom. Writing and Production Planning	4
TCOM 170	Media Perspectives	4
TCOM 206	Professional Options in Telecommunications	4
TCOM 308	Technical Bases of Telecommunications	4
	Elective	4

General Requirements: 50–51 hours

CS 120	Computer Literacy	4
ECON 103 or MGT 200	Prin. of Microeconomics Intro to Management	4
ENG 151	Freshman Composition	5
ENG 280 or JOUR 133	Expository Writing and the Research Paper Precision Lang. for Journalists	4
INCO 103	Fund. of Public Speaking	4
JOUR 350	Radio Broadcast News	4
MATH 109 or	Consumer Mathematics other Tier I Quantitative Skills	4–5
POL5 101 or 102	American National Govt. Issues in American Politics	4
SOC 101 or PSY 101	Intro to Sociology General Psychology	5
Tier II	Arts and Humanities	4
Tier II	Social Sciences	4
	Elective	5

You must complete no fewer than 40 and no more than 48 of the 96 hour total in EM, TCOM, and JOUR courses. You may be required to enroll in additional courses if prerequisites have not been met.

Minimum required for graduation: 96

Electronics Technology (A.A.S.)

Major code AA5318

Ohio University–Lancaster and Ohio University–Southern offer a two-year program for electronics technicians leading to the Associate in Applied Science degree. Requirements for the degree include computer maintenance courses, industrial electronics courses, related basic courses, and general education courses. Previous graduates have obtained positions in industrial maintenance, production, or service industries as engineering assistants and as part of engineering teams that design, test, install, and maintain electronics and computer systems.

Technical Requirements: 48 hours

ETCH 110	Basic Electronics	4
ETCH 111	AC and DC Circuit Analysis	4
ETCH 112	Industrial Electronics	4
ETCH 120	Digital Electronics	4
ETCH 220	Electrical Motors, Control Circuits, and Computers	4
ETCH 221A	Programmable Controllers, Instrumentation, and Process Control I	4
ETCH 221B	Programmable Controllers, Instrumentation, and Process Control II	4
ETCH 236A	Microprocessor and Computer Basics	4
ETCH 236B	Microprocessor and Computer Basics	4
ETCH 260	Data Communications and Computers	4
ETCH 288	Personal Computer Maint.	4
ETCH 289	Elect. Trouble Shooting and Repair	4

General Requirements: 47–48 hours

BMT 101 or ECON 103	Business and Its Environ. Prin. of Microeconomics	4
ENG 151	Freshman Composition	5
INCO 103	Fund. of Public Speaking	4
IT 101	Engineering Drawing I	3
IT 115	Metal Fabrication	3
MATH 113	Algebra	5
MATH 115* or MATH118*	Pre-Calculus Elem. Appl. Mathematics	4–5
MATH 163A or MATH 263A	Intro to Calculus Calculus*	4
PHYS 201 or PHYS 251	Intro to Physics General Physics	5
PHYS 202 or PHYS 252	Intro to Physics General Physics	5
PSY 101	General Psychology	5

*Mathematics course selection depends on your long-range goals.

Minimum required for graduation: 96

Environmental Engineering Technology (A.A.S.)

Major code AA5018

Ohio University–Chillicothe offers a two-year program of study leading to an Associate in Applied Science degree in environmental engineering technology. This program will prepare its graduates as environmental professionals to work with numerous federal, state, and local government agencies as well as with private field consulting companies and industry. Graduates will be able to perform environmental field testing and remediation, develop environmental programs, and maintain environmental health and safety control and compliance.

Technical Requirements: 46 hours

EVT 100	Intro to Environ. Engr. Tech.	3
EVT 110	Computational Methods in Environ. Engr. Tech.	3
EVT 115	Legal Aspects of Environ. Engr.	2
EVT 120	Intro to Environ. Chem.	3
EVT 125, 125L	HAZWOPER Training, Lab	4
EVT 140	Intro to Air Pollution	3
EVT 150	Instrumentation in Environ. Analysis	3
EVT 200, 200L	Site Invest., Sampling, and Monitoring, Lab	4
EVT 210, 210L	Intro to Hlth. Physics, Lab	4
EVT 220	Fluid Mechanics	3
EVT 240, 240L	Air Sampling and Analysis, Lab	4
EVT 245	Wastewater Treatment	3
EVT 250, 250L	Analysis of Environ. Pollutants, Lab	4
EVT 260	Environ. Risk Assessment	3

General Requirements: 45-53 hours

CHEM 151, 152, 153 or CHEM 121, 122, 123*	Fund. of Chemistry I, II, III Prin. of Chemistry I, II, III	12-15
CS 135	Special Topics in Programming with BA5IC	3
ENG 151	Freshman Composition	5
INCO 103	Fund. of Public Speaking	4
MATH 163A or MATH 115*	Intro to Calculus Precalculus	4-5
MICR 211	Basic Microbiology	4
MICR 212	Basic Microbiology Lab	2
PHYS 201 or PHYS 251	Intro to Physics General Physics	5
Tier II	Electives	6-10

Any Tier II course not already required by the EVT program is acceptable, but you are encouraged to select from distribution areas other than Natural Sciences and Mathematics if you intend to pursue a bachelor's degree.

* In special circumstances, students may substitute the CHEM 121 series for the CHEM 151 series, or MATH 115 for MATH 163A. This requires approval by the EVT program coordinator.

Minimum required for graduation: 96

Equine Studies (A.A.S.)**Major code AA5017**

Ohio University-Southern offers a two-year program leading to the Associate in Applied Science in equine studies. The program is designed for students who seek enjoyment and/or employment as trained professionals in the horse industry. Positions you may be prepared to pursue upon graduation will vary with the elective equine courses you choose. Possible areas of employment are stable manager, farm manager, riding instructor, equine secretary or records manager, equine sales and marketing agent, horse trainer or assistant trainer, equine journalist, horse show or event manager, horse show judge, national breed association representative, and equine photographer or artist. For additional information, contact the equine studies program coordinator.

Technical Requirements: 37-50 hours

EQU 101	Intro to Equine Studies	4
EQU 110	Equine Nutrition	4
EQU 120	Equine Anatomy and Physiology	4
EQU 125	Equine First Aid and Preventive Medicine	5
EQU 130	Equine Eval. and Selection	3
EQU 200	Equine Reproduction	4
EQU 215	Equine Business Mgt.	4
EQU 220	Farm and Stable Mgt.	4
EQU 290	Equine Field Experience	1-6
EQU 295	Equine Internship	1-6
	Electives	3-6

Select five of the following courses (at least two seats): 5 hours

PED 166	Horseback Saddle Seat I	1
PED 167	Horseback Saddle Seat II	1
PED 168	Horseback Saddle Seat III	1
PED 180	Horseback Saddle Seat IV	1

PED 170	Horseback Hunt Seat I	1
PED 171	Horseback Hunt Seat II	1
PED 172	Horseback Hunt Seat III	1
PED 173	Horseback Hunt Seat IV	1
PED 174	Horseback West I	1
PED 175	Horseback West II	1
PED 176	Horseback West III	1
PED 177	Horseback West IV	1
PED 178	Horseback Jumping I	1
PED 179	Horseback Jumping II	1
PED 194	Horseback Trail Riding	1

General Requirements: 49 hours

ATCH 103	Financial Acct. Procedures	4
ATCH 104	Financial Acct. Procedures	4
BIOL 101	Principles of Biology	5
CS 120	Computer Literacy	4
ENG 151	Freshman Composition	5
INCO 101	Fund. of Human Communication	4
JOUR 250	Advertising Principles	4
JOUR 270	Intro to Public Relations	3
MATH 109	Consumer Mathematics	4
MGT 200	Intro to Management	4
PESS 227	First Aid	3
PSY 101	General Psychology	5

Minimum required for graduation: 96

Hazardous Materials Technology (A.A.S.)**Major code AA5004**

Ohio University-Chillicothe offers a two-year degree program leading to an Associate in Applied Science in hazardous materials technology. The program is designed for men and women interested in the challenging and expanding career options available in hazardous waste management, control, and remediation. The goal of this program is to further your knowledge on the types and effects of various hazardous substances, as well as to provide clarity on the regulations, standards, and guidelines established for proper waste disposal. For further information on the program and possible career opportunities, contact the director of the hazardous materials technology program. In order to broaden and improve your employment opportunities, you are encouraged to further your education in such bachelor's degree programs as industrial hygiene, environmental engineering technology, or safety sciences.

Technical Requirements: 49-50 hours

EVT 100	Intro to Envir. Eng. Tech.	3
HMT 110	Haz. Mat. Regulation I	4
HMT 120	Hazard Communication Standard	3
HMT 130	Industrial Processes	3
HMT 140	Haz. Mat. Regulation II	4
HMT 150	Emergency Response I	3

HMT 200	Haz. Mat. Recov., Incineration, and Disposal	4
HMT 210	Haz. Mat. Regulation III	4
HMT 220	Haz. Mat. Health Effects	3
HMT 230	Emergency Response II	3
HMT 240	Haz. Mat. Testing	4
HMT 289A or LET 250	40-hour HAZWOPER Vice and Narcotic Control	3-4
HMT 289B	Haz. Mat. Instrumtn.	4
HMT 289C	Radiation Biology and Protection	4

General Requirements: 50-54 hours

BIOL 101 or BIOS 103	Principles of Biology Human Biology	5
BIOS 130	Prin. of Human Anatomy and Physiology I	5
CHEM 121 or CHEM 151	Prin. of Chemistry I Fund. of Chemistry I	4-5
CHEM 122 or CHEM 152	Prin. of Chemistry II Fund. of Chemistry II	4-5
CHEM 123 or CHEM 153	Prin. of Chemistry III Fund. of Chemistry III	4-5
CHEM 301	Organic Chemistry	3
ENG 151	Freshman Composition	5
INCO 103	Fund. of Public Speaking	4
INCO 304	Prin. and Techniques of Interviewing	4
MATH 113	Algebra or higher Tier I MATH	4-5
PESS 227	First Aid	3
PHYS 201	Intro to Physics	5

Minimum required for graduation: 96**Human Services Technology (A.A.S.)****Major code AA5201**

Ohio University–Chillicothe and Ohio University–Southern offer a two-year program leading to an Associate in Applied Science in human services technology. Previous graduates have obtained employment in the fields of mental health, social services, child care, corrections, chemical dependency counseling, and other human service related areas.

Technical Requirements: 46-48 hours

HST 100	Intro to Human Services	4
HST 150	Behavior Management I	3
HST 151	Behavior Management II	4
HST 152	Behavior Management III	4
HST 170	Group Dynamics I	4
HST 171	Group Dynamics II	3
HST 200	Personal Management	3
HST 210	Practicum I	2
HST 211	Practicum Seminar I	1
HST 220	Practicum II	2
HST 222	Practicum Seminar II	1
HST 250	Practicum III	2
HST 255	Practicum Seminar III	1
HST 275	Community Resources	3
HST 290L	Case Management	3
HST	Electives or approved technical electives	6-8

Support Course Requirements: 22-25 hours

BIOS 392	Psychopharmacology	3
INCO 104	Listening or approved INCO sub.	4
POLS 306	Politics of Appalachia or approved POLS sub.	4-5
PSY 233 or PSY 273	Psychology of Personality Child and Adoles. Psych.	4
PSY 332	Abnormal Psychology	4
Tier II	Social Sciences	3-5

General Requirements: 27-30 hours

BIOS 103 or BIOL 101 or PBIO 103	Human Biology Principles of Biology Plants and People	4-5
PSY 101	General Psychology	5
SOC 101	Intro to Sociology	5
Tier I	Freshman Composition	5
Tier I	Quantitative Skills	4-5
	Elective (MATH 101 if needed)	4-5

Minimum required for graduation: 96**Law Enforcement Technology (A.A.S.)****Major code AA5505**

Ohio University–Chillicothe and Ohio University–Southern offer a two-year program leading to an Associate in Applied Science in law enforcement technology. This program prepares you for employment in law enforcement by providing academic preparation for the contemporary officer. Career opportunities may be available in such areas as state highway patrol, local and county law enforcement agencies, corrections, juvenile authorities, and as probation officers. Upon completion of this program, if interested, you may continue in the Bachelor of Criminal Justice program on the Athens campus. You may also work toward the Athens-based baccalaureate degree in forensic chemistry. Additional information is available from the law enforcement technology program director or University College.

Technical Requirements: 46 hours

LET 100	Intro to Law Enforcement Tech.	3
LET 110	Police Role in Crime and Delinquency	3
LET 120	Constitution, Criminal, and Civil Law	3
LET 130	Interviewing and Report Writing	3
LET 140	Intro. to Criminalistics	3
LET 150	Police Patrol Operations	3
LET 200	Procedures, Rules, and Test of Evidence	4
LET 210	Cybernetics	3
LET 220	Court Proc. and Proc.	3
LET 230	Police Community Rel.	3
LET 240	Law Enforce., Admin., and Supervision	3

LET 250	Vice and Narcotic Control	3
LET 260	Criminal Investigation	3
LET 270	Arrest, Search, and Seizure	3
LET 280	Traffic Enforce., Educ., and Engineering	3

General Requirements: 51-54 hours

CS 120	Computer Literacy	4
ENG 151	Freshman Composition	5
INCO 101	Fund. of Human Communication	4
or INCO 103	Fund. of Public Speaking	
PED	Physical Activity Courses (1 cr. each)	6
PESS 227	First Aid	3-4
or HLTH 202	Health Science and Lifestyle Choices	
POLS 101	American National Govt.	4
or POLS 102	Issues in American Politics	
or POLS 210	Prin. of Public Admin.	
POLS 320	Urban Politics	3-4
or SST 290A	Special Area Studies	
PSY 101	General Psychology	5
SOC 101	Intro to Sociology	5
SOC 201	Contemp. Social Problems	4
SOC 362	Criminology	4
Tier I	Quantitative Skills	4-5

Minimum required for graduation: 96**Medical Assisting Technology (A.A.S.)****Major code AA5019**

Ohio University-Lancaster offers a two-year program leading to the Associate in Applied Science in medical assisting technology. The program is designed to provide you with the knowledge and skills necessary in both the scientific/clinical areas and the business/administrative areas of the medical assisting field. Medical assistants are allied health professionals who work in a variety of health care settings. Contact the director of medical assisting technology for further information.

Technical Requirements: 37 hours

MAT 101	Intro to Medical Assisting	2
MAT 140	Medical Terminology	3
MAT 150	Medical Transcription	3
MAT 170	Administrative Medical Assisting	4
MAT 201	Clinical Techniques I	4
MAT 202	Clinical Techniques II	4
MAT 203	Clinical Techniques III	4
MAT 210	Law Ethics for Medical Assisting	2
MAT 230	Insurance Billing/Coding	4
MAT 250	Computerized Office Procedures	4
MAT 295	Externship	3

Related Basic Requirements: 20 hours

ATCH 103	Financial Acct. Procedures	4
BMT 115	Found. of Quality and Cont. Improvement	4
CTCH 125	Intro to Computers	4
OTEC 122*	Keyboarding II	4
OTEC 230	Business Communication II	4

*This course has a prerequisite of OTEC 121 Keyboarding I. Students are expected to have had Intro to Keyboarding. Students are tested for competency. If they are not level II, they will need to take OTEC 121 or utilize other options.

General Requirements: 51 hours

BIOS 103	Human Biology	5
BIOS 130	Prin. of Human Anatomy and Physiology I	5
BIOS 131	Prin. of Human Anatomy and Physiology II	5
ENG 151	Freshman Composition	5
HCFN 128	Intro to Nutrition	4
HLTH 202	Health Science and Lifestyle Choices	4
HLTH 217	Intro to Hlth. Care Orgs.	4
INCO 103	Fund. of Public Speaking	4
MATH 109	Consumer Mathematics	4
PESS 227	First Aid	3
PSY 101	General Psychology	5
SW 101	Intro to Social Welfare and Social Work	3

Electives: 6-14 hours

MAT 290	Special Topics	1-5
MAT 291	Independent Study	1-5
OTEC 123	Keyboarding III	4

Minimum required for graduation: 96**Nursing (A.A.S.)****Major code 5A2341**

Ohio University-Zanesville and Ohio University-Chillicothe offer a two-year nursing program. Upon completing the program, you receive an Associate in Applied Science in nursing and are eligible to take the National Council Licensure Examination for Registered Nurse. The program is accredited by the National League for Nursing Accrediting Commission, 61 Broadway, New York, NY 10006; telephone 800-669-1656 ext. 153. All nursing courses (NURS) must be completed with a grade of C or better.

To apply, you must be a high school graduate or hold a certificate of high school equivalency (GED). A high school g.p.a. of 3.0 on a 4.0 scale or established college g.p.a. is expected. To be reviewed by the selection committee, you must have completed courses in biology, algebra, and chemistry at the high school or college level with a grade of C or better in each course. You are required to take the National League for Nursing Pre-Admission Examination-RN before admission to the nursing program. A score composite of 100 or greater is expected. At least the 30th percentile in each AD category (verbal, math, and science) also is expected.

Technical Requirements: 64 hours

NURS 110	Foundations of Nursing I	4
NURS 111	Foundations of Nursing II	4
NURS 115	Commun. in Nursing	1
NURS 120	Assessment of the Middle and Older Adult	2
NURS 121	Assessment of the Neonate Through Young Adult	2
NURS 130	Pharmacology in Nurs. I	1
NURS 131	Pharmacology in Nurs. II	2
NURS 132	Pharmacology in Nurs. III	2
NURS 210	Health Alterations I	7
NURS 211	Health Alterations II	7
NURS 212	Health Alterations III	7
NURS 220	Maternal, Newborn, and Women's Hlth. Alterations	5
NURS 230	Mental Health Alterations	5
NURS 240	Child and Adolescent Health Alterations	5
NURS 260	Transition to Nursing Practice	10

General Requirements: 44 hours

BIOS 130	Prin. of Human Anatomy and Physiology I	5
BIOS 131	Prin. of Human Anatomy and Physiology II	5
CHEM 121	Prin. of Chemistry I	4
ENG 151	Freshman Composition*	5
HCFN 128	Intro to Nutrition	4
MICR 201	Elementary Microbiology	4
PSY 101	General Psychology	5
PSY 120	Elem. Statistical Reasoning	4
SOC 101	Intro to Sociology	5
	Elective**	3

Minimum required for graduation: 108

The sequence of the first-year support courses may not be altered; second-year support course sequence may be altered with permission. A curriculum sheet with the actual sequencing outline can be obtained from the Associate's Degree Nursing Office.

*Taken prior to completion of the nursing program.

**Recommended: Fine Arts, Humanities, C5 120, PSY 273.

Office Technology (A.A.B.)**Major code AA5014**

Ohio University–Chillicothe, Ohio University–Lancaster, and Ohio University–Southern offer a two-year program of study leading to an Associate in Applied Business degree in office technology. This program provides knowledge in many phases of business and incorporates the development of supervisory skills. For additional information, contact the office technology program director at your campus.

Technical Requirements: 49–60 hours

BMT 115	Found. of Quality and Cont. Improvement	4
or OTEC 248	Admin. of Record Systems	
OTEC 121	Keyboarding I	4
OTEC 122	Keyboarding II	4
OTEC 130	Business Communication I	3–4
OTEC 171	Administrative Procedures I	4
OTEC 172	Administrative Procedures II	4
OTEC 200	Desktop Publishing I	3–4
or OTEC 123	Keyboarding III	
OTEC 221	Dictation/Transcription	4
OTEC 225	Commun. Processing I	3–4
OTEC 226	Commun. Processing II	3–4
OTEC 227	Commun. Processing III	3–4
OTEC 230	Business Communication II	4
OTEC 231	Business Calculations	4
or MATH 109	Consumer Mathematics	
OTEC 290	Seminar	1–4
OTEC 299	Internship	1–4
or OTEC 201	Desktop Publishing II	

Business Core Requirements: 26–28 hours

ATCH 103	Financial Acct. Procedures I	4
ATCH 104	Financial Acct. Procedures II	4
BMT 101	Business and Its Environ.	3–4
or OTEC 258	Stress Management for Office Personnel	
BMT 150	Elements of Supervision	4
or OTEC 267	Office Supervision	
BUSL 255	Law and Society	4
CTCH 125	Intro to Computers	3–4
or OTEC 268	Information System Design	
INCO 103	Fund. of Public Speaking	4

General Education Requirements: 14–15 hours

Tier I	English Composition	5
Tier I	Quantitative Skills (Note: MATH 109 satisfies this requirement.)	4–5
Tier II	Social Sciences	5

Minimum required for graduation: 96

Security/Safety Technology (A.A.S.)**Major code AA5506**

Ohio University–Chillicothe offers a two-year program leading to an Associate in Applied Science in security/safety technology. The program prepares you for employment in security by providing academic preparation for the contemporary officer. Career opportunities may be available in such areas as corporate, industrial, retail, and government security. For further information, contact the director of the security/safety program.

Technical Requirements: 55 hours

ATCH 103	Financial Acct. Procedures	4
ATCH 104	Financial Acct. Procedures	4
BA/BMT 101	Business and Its Environ.	4
LET 120	Constitution, Criminal, and Civil Law	3
LET 130	Interviewing and Report Writing	3
LET 200	Procedures, Rules, and Test of Evidence	4
LET 260	Criminal Investigation	3
SST 101	Intro to Protective Services	3
SST 110	Physical Security Systems	3
SST 120	Occupational Safety and Health	3
SST 201	Fire Safety and Fire Codes	3
SST 210	Loss Prevention in Modern Retailing	3
SST 220	Analysis of Security Needs—Survey	3
SST 230	Information and Data Systems Security	3
SST 240	Security Administration	3
SST 250	Current Prob. in Security	3
SST 260	Analytical Accounting	3

General Requirements: 42–43 hours

BUSL 255	Law and Society	4
CS 120	Computer Literacy	4
ENG 151	Freshman Composition	5
INCO 101	Fund. of Human Communication	4
PESS 227	First Aid	3
POLS 101 or POLS 102	American National Govt. Issues in American Politics	4
PSY 101	General Psychology	5
SOC 101	Intro to Sociology	5
SOC 362	Criminology	4
Tier I	Quantitative Skills	4–5

Minimum required for graduation: 96**Travel and Tourism (A.A.S.)****Major code AA5016**

Ohio University–Southern offers a two-year program leading to the Associate in Applied Science in travel and tourism. Upon completion of the program, you may seek employment as a travel professional in travel agencies, tourist organizations, and other travel-related businesses. For additional information on employment opportunities, contact the director of travel and tourism.

Technical Requirements: 34 hours

TAT 150	Travel Career Dev. Part I	3
TAT 151	Travel Career Dev. Part II	3
TAT 160	Destination Training—North America	3
TAT 161	Destination Training—Ohio	3
TAT 162	Destination Training—Western Europe	3
TAT 163	Destination Training—Asia	3
TAT 164	Destination Training—Mexico, Caribbean	3
TAT 250	Trav. Rules and Regulations	4
TAT 270	Travel Comp. Program Train.	3
TAT 280	Seminar—Travel Planning and Counseling	1
TAT 281	Practicum—Travel Planning and Counseling	2
TAT 282	Seminar—Tour Planning and Direction	1
TAT 283	Practicum—Tour Planning and Direction	2

Business Core Requirements: 31 hours

ACCT 101 or ATCH 103	Financial Accounting Financial Acct. Procedures	4
ACCT 102 or ATCH 104	Managerial Accounting Financial Acct. Procedures	4
CS 120 or BMT 200	Computer Literacy Intro to Business Computing	4
ECON 103	Prin. of Microeconomics	4
INCO 103	Fund. of Public Speaking	4
JOUR 250	Advertising Principles	4
JOUR 270	Intro to Public Relations	3
MGT 200	Intro to Management	4

General Requirements: 32 hours

ENG 151	Freshman Composition	5
GEOG 121	Human Geography	4
MATH 109	Consumer Mathematics	4
PESS 227	First Aid	3
PESS 228	CPR	1
SPAN 111, 112, 113 or other modern foreign language	Elementary Spanish	12
	Elective	3

Minimum required for graduation: 96

Reserve Officers' Training Corps (ROTC)

The rationale for reserve officer training stems from a statement by the founders of this nation that we must "provide for the common defense." If you have the desire and talent to dedicate your time to the service of your country, there are many varied rewards. Today, when science and technology are so much a part of the national defense, and the defense of this nation is so inextricably involved with world problems, our nation needs talented and well trained officers in its military services. These services need the best leaders, managers, administrators, engineers, and scientists the nation's schools can produce to be officers with wide ranges of knowledge and skill. The Reserve Officers' Training Corps, in agreement with universities and colleges, is designed to produce these types of men and women for the nation.

The Army ROTC program at Ohio University is under the Military Science Department; the Air Force ROTC program is under the Aerospace Studies Department.

ROTC is divided into two phases: the basic course and the advanced course. The university offers a two-year and a four-year program.

Notice: The ROTC programs at Ohio University may not fully comply with university nondiscrimination policies due to the selective process of military service. However, the ROTC programs are in compliance with national nondiscrimination policies and the guidance and policies of the respective military services and the Department of Defense.

Basic Course Requirements

In general, any undergraduate Ohio University student who is a United States citizen is eligible for enrollment in the basic courses with no commitment. If you are not a United States citizen, you may be enrolled with special permission.

Advanced Course Requirements

To be eligible for the Army ROTC advanced course (two academic years in duration), you must meet academic, physical aptitude, and moral selection criteria and complete either the basic course on campus or the six-week summer camp following your sophomore year. To be eligible for the Air Force ROTC advanced course (two academic years in duration), you must meet academic, physical aptitude, and moral selection criteria; complete the basic course on campus and a four-week summer camp or a five-week summer camp in lieu of the basic course; and enlist in the Air Force Reserve. Attendance at summer camp normally follows the sophomore year. Graduate students may also enroll in either advanced course after completing summer camp. Upon graduation, Air Force ROTC cadets receive active duty commissions as second lieutenants. Army ROTC cadets, upon successful completion of the program, are commissioned as second lieutenants in the United States Army, the United States Army Reserve, or the Army National Guard. You may be discharged from the reserve for reasons of academic failure, personal hardship, medical disqualification, or inaptitude.

Scholarships

Scholarships are available on a competitive basis for qualified students. These scholarships pay costs of tuition, mandatory student fees, and books. Additionally, recipients receive a tax-free subsistence allowance of \$150 monthly for the period the scholarship is in effect. If you are in the advanced course, you receive subsistence allowances of \$150 per month and can qualify for scholarships of up to \$9,000 per year. Room and board incentives may be available to scholarship winners. Nonscholarship students in the advanced course also receive the \$150 subsistence allowance. National Guard 60 percent tuition assistance is available.

Summer Camp/Field Training Allowances

All travel expenses, board, living quarters, and uniforms are furnished, and you are paid while attending summer camp/field training.

Uniforms and Equipment

Training equipment and complete uniforms are loaned to all ROTC students without cost.

Commissions

If you successfully complete the ROTC advanced course and the requirements for a baccalaureate degree, you will be qualified for the tender of a commission as a second lieutenant in the United States Army or the United States Air Force.

Special Schooling

Selected officers, after entrance on active duty, are sent to civilian universities or service technical institutes for graduate work leading to a master's degree or to a doctoral degree in specialized fields. In addition, Army ROTC students may be selected for a variety of specialized training opportunities, such as Airborne School, Air Assault School, and Northern Warfare School.

Aerospace Studies Program (Air Force ROTC)

The Aerospace Studies Program is designed to develop attitudes and skills required of professional Air Force officers. The goal is to provide you with the background knowledge to become an officer in the United States Air Force, while acquiring a baccalaureate degree in a field of your own choosing.

The curriculum during the first two years of the basic program (for an additional one credit hour per quarter) is an introduction to topics important to future Air Force officers. It introduces career opportunities and focuses on the doctrine, mission, and organization of the United States Air Force. It also includes studies of the development of air power and present concepts within the Air Force. Included are elements of national power, an overview of the Air Force, a study of democracy, and the actions of nations in their search for world peace.

Concurrently with these academic subjects, you participate in leadership activities called "Leadership Lab" (one credit per quarter). These activities enable you to gain insight into the dynamics of military leadership, as well as becoming familiar with Air Force customs and courtesies. There is no commitment during the first two years (for nonscholarship cadets), and it is an excellent way for you to look at the Air Force as a career. If you wish to attend the class for academic credit but are not interested in becoming an officer, you need not participate in Leadership Lab; you are not considered an officer candidate and are welcome as classroom space allows. The entire basic program consists of six quarters of study and is entitled the "General Military Course," or GMC.

The advanced curriculum, entitled the "Professional Officer Course," or POC (four credit hours per quarter), is specifically designed to prepare you for active duty as a commissioned officer. Studies include military leadership and principles of management during the junior year. The senior year includes defense policymaking, the military professional, strategy, arms control, and military justice. It emphasizes professional responsibilities of Air Force officers within our democratic society and how the Air Force supports national goals. Through case studies, guest lectures, and dialogue, you experience a realistic simulation of problems facing officers. As a member of the advanced Professional Officer Course, you develop leadership skills by supervising first-year and sophomore cadets in Leadership Lab. You practice communication skills and perform organizational projects similar to those accomplished by active duty Air Force officers. This advanced unit consists of six quarters of on-campus study and a summer field training encampment.

Flight Qualification. Qualified cadets have the additional option of becoming a flight officer. Identification for either pilot or navigator training will be made during your junior year. If you are selected, you will enter USAF pilot or navigator training after graduation and commissioning.

Assignment. After commissioning, you are assigned to a position within the Air Force structure that best combines your academic major and desires with the needs of the Air Force. Past graduates have requested and been assigned to areas of air operations (both flyers and nonflyers); administration; biological, medical, physical, and social sciences; engineering; law; and research and development in aerospace technologies.

Military Science Program (Army ROTC)

The Military Science Program is designed to develop the leadership and management skills required of an officer in the United States Army. The military science curriculum complements your normal coursework for a baccalaureate degree and provides a basis for progression toward a commission as an officer in the United States Army. There are two programs: the traditional four-year program, which parallels the normal college program, and the two-year program, which you can enter prior to the last two years of college.

During the first two years, or basic course, you take classes (two credit hours per quarter) in general military subjects including an introduction to the Army ROTC program, basic skills, leadership and team building, and leadership and small-unit operations. All students participate in a bi-weekly

leadership laboratory. These courses provide a basic understanding of the Army and a background for the second two years of the program. During the first two years there is no requirement for wearing of uniforms, and no military service obligation is incurred. You may be given credit for the basic course and qualify for continuation in the ROTC program through prior military service, credit for other officer training courses, or current service in the National Guard or Reserves; or by attending a six-week ROTC basic camp, Camp Challenge, during the summer between your sophomore and junior years in lieu of the basic course. Attendance at camp is voluntary and incurs no military service obligation.

The second two years, or advanced course, expand your knowledge of military subjects, including military justice, tactics, ethics and professionalism, management, training, and current issues affecting the military. In addition to the credit courses, the department conducts a leadership laboratory in which all students take part in planning and conducting such adventure-type outdoor training activities as rappelling, survival swimming, marksmanship, physical training, and land navigation. Advanced course students are required to attend a six-week summer camp between their junior and senior years. All summer camp expenses, including meals, housing, travel, and uniforms, are paid by the Army. In addition, each cadet is paid approximately \$600 in military pay for camp attendance. (This applies to both basic and advanced camps.)

The Department of Military Science also sponsors several extracurricular clubs or activity groups organized by the cadets with faculty advisors, such as the Color Guard and Association of the United States Army (AUSA) club. Cadets may be selected on a voluntary basis for attendance at U.S. Army schools such as Airborne (parachutist) School, Air Assault School, and Northern Warfare School.

During the advanced course, you enter into a contract that obligates you to complete the program, accept a commission as an officer, and serve in the U.S. Army, U.S. Army Reserves, or Army National Guard. Upon graduation and commissioning, lieutenants have a variety of assignments and worldwide locations in which to complete their military service obligation.

Center for International Studies

Burson House

Josep Rota
Director

Beth Clodfelter
*Coordinator, Bachelor of Arts in
International Studies*

Ohio University established the Center for International Studies in 1964 to provide students and citizens of the United States and other countries with opportunities to obtain knowledge about the peoples and cultures of the world, particularly Africa, Asia, and Latin America, and about related international concerns. This endeavor is founded on the broad belief that an appreciation of different values and institutions increases understanding between peoples, enriches the lives of individuals, better prepares them for work in a globalized environment, and assists them in forming opinions on issues that affect the global community.

The Center coordinates teaching, research, publication activities, and community outreach through programs related to three world regions—Africa, Southeast Asia, and Latin America—and comparative and international topics. These programs assist in the development of courses, the expansion of library materials, and the education of globally literate citizens. They support visiting lecturers, film series, seminars, and colloquia throughout the year. The African Studies Program, in consortium with the African Studies Center at Ohio State University, has been designated a National Resource Center for African Studies by the U.S. Department of Education. More than 100 scholarly books relating to Africa, Southeast Asia, and Latin America have appeared in the Center's monograph series. An East Asia Committee also functions with some modest support from the Center.

At the undergraduate level, an interdisciplinary Bachelor of Arts in International Studies with concentrations in Asia, Africa, Europe, and Latin America is offered jointly by the Center and the College of Arts and Sciences. The Center also offers nonmajors a certificate in Asian, African, European, or Latin American Studies. (See complete description under the College of Arts and Sciences section of this catalog.)

Phi Beta Delta

The Beta Iota chapter of Phi Beta Delta International Honor Society is headquartered at the Center. Faculty, staff, and students with outstanding records of international scholarship and service are eligible for nomination.

Community Outreach

The Center houses Ohio University's international community outreach arm, the Ohio Valley International Council (OVIC). OVIC provides opportunities for international students, faculty, staff, and former Peace Corps volunteers to interact with K-12 students, the regional campuses, and the community. OVIC houses a teacher resource center that supplies cultural artifacts and curriculum materials to area schools and community organizations. International students coming to Ohio University are encouraged to bring materials with which they can share their cultures.

Peace Corps

Another of the Center's facilities is the Peace Corps Office, one of about 30 campus-based Peace Corps recruitment offices nationwide. Ohio University counts many returned Peace Corps volunteers among its faculty, staff, and student body.

International Cooperation

Ohio University maintains a proud tradition of international cooperation through its many and diverse relationships.

Special international educational programs exist with scores of institutions across the five continents. An ever increasing number of Ohio University faculty members have studied and taught abroad, and offer courses with an international focus. Returned Peace Corps Volunteers and more than 1100 students from approximately 100 countries contribute to the rich international culture of Ohio University.

Alden Library offers some of the best resources in the state related to international themes and issues. The library's materials include Ohio's largest collection on Africa and one of the best collections on Southeast Asia in the world, while the Latin American collection has especially strong Central American holdings. Ohio University is the official depository for government documents from Botswana, Guatemala, Malaysia, and Swaziland. International periodicals, films, videos, and other media are also readily available from the library's extensive holdings.

Division of Lifelong Learning

Thomas Shostak
Dean

Director to be announced
Adult Learning Services

Marlene Wisowaty
Director
Continuing Education, Conferences, and Workshops

Richard Moffitt
Director
Independent Study

Pam Brown
Director
Summer Sessions

The Division of Lifelong Learning is the administrative umbrella for Continuing Education, Conferences, and Workshops; Adult Learning Services; Summer Sessions; and Independent Study. Its purpose is to provide lifelong learning opportunities beyond the regular channels by using university resources in nontraditional ways.

Classes, independent study courses, workshops, and seminars—both credit and noncredit—are offered in response to interests and needs. Some programs may lead to a degree. If you are interested in seeking an Ohio University degree, you must be admitted through normal university procedures. Participants in designated noncredit courses may earn continuing education units (CEUs).

Programs especially designed for those not seeking traditional credit include the Senior Citizens Program and the Informal Community Learners Program. The Senior Citizens Program, which began in 1973, allows Ohio residents who are 60 years of age or older to attend any undergraduate class free on a noncredit, space available basis with faculty permission. The Informal Community Learners Program (ICLP) allows an opportunity for area residents not currently enrolled for credit to enroll in any undergraduate Ohio University class, subject to permission of the instructor. University credit cannot be earned through either the Senior Citizens Program or ICLP. Additionally, a 15 percent fee reduction will be given for most noncredit Community Education classes (excluding trips, tours, riding classes, computer programs, related classes, and certificate programs). Call 740-593-1521 for details.

Adult Learning Services

The Office of Adult Learning Services administers several programs for adult students—the External Student Program, the Adult Institutes, the Experiential Learning Program, the College Program for the Incarcerated, and the Hong Kong Degree Program.

The **External Student Program** is for the adult who is interested in a degree but cannot study full time on campus. The program provides help in evaluating previous college course work and planning a degree program. Students can work on one of several associate's degrees or the Bachelor of Specialized Studies by taking Independent Study Courses by Correspondence or Course Credit by Examination (see Independent Study). Many students also take advantage of Summer and Winter Institutes and portfolio-based assessment.

The **Experiential Learning Program** of portfolio-based assessment helps qualified adults document and receive credit for learning that has occurred through work or volunteer activities. A maximum of one year of credit may be earned toward a four-year degree. EDCE 203 Credit for Work Experience: Portfolio Development, which focuses on the development of the learning portfolio and is required for the submission of a portfolio, is offered on the Athens and regional campuses and by correspondence.

The **Summer and Winter Institutes for Adult Learners** allow adult students to come to the Athens campus for one to three weeks of intensive study. This award-winning program gives students another opportunity to earn college credit with other adults who are pursuing degrees.

The **College Program for the Incarcerated** serves incarcerated adults who wish to earn a degree or college credit. Students receive guidance in evaluating previous college work and planning a degree. The Bachelor of Specialized Studies and four associate's degrees are available, or students can transfer credit to other institutions. Most credit is earned through Independent Study Courses by Correspondence or Course Credit by Examination. Comprehensive fees make college level study more accessible to the incarcerated.

For more information on the **Hong Kong Degree Program**, call the toll free number listed below. In Hong Kong call 2339-5471/5472.

For more information, contact

Adult Learning Services
Ohio University
Tupper Hall 301
Athens OH 45701-2979
Telephone 740-593-2150/1-800-444-2420
Fax 740-593-0452
E-mail external.student@ohio.edu
World Wide Web www.ohio.edu/adultlearning/

Continuing Education, Conferences, and Workshops

The Office of Continuing Education, Conferences, and Workshops delivers quality lifelong learning programs and opportunities to the extended community—groups and individuals of all ages—by providing credit and noncredit education choices that allow them to attain their educational, professional, and personal goals. Programs in community education as well as workshops in basic academic disciplines meet the educational needs of individuals, businesses, government, industry, and nonprofit professional organizations.

The Office of Continuing Education, Conferences, and Workshops provides community events, conferences, economic development opportunities, on-site training, open enrollment classes, travel experience, and credit and noncredit workshops, available locally, statewide, nationally, and internationally.

Continuing Education

Continuing Education provides evening and weekend undergraduate and graduate courses for nontraditional students; certificate programs in real estate, management, and other career development areas; and experimental and

innovative classes in a number of degree programs. The community education program offers a wide array of educational and avocational classes to area residents each quarter. Continuing Education also develops in-house training for business and industry, social service agencies, and professional and civic groups.

Conferences

As the primary contact with outside organizations interested in Ohio University as a conference site, Conferences provides a variety of services including program development and management, registration, budgeting and financial reporting, and educational meeting planning. Ohio University's conferencing facilities include full-service dining operations, recreation opportunities, and flexible meeting spaces with audiovisual and video conferencing equipment. Recently hosted groups include the Mormon Church Youth Group, International Space University, Episcopal Church, Rainbow Girls Assembly, Ohio AFL-CIO, and the Southern Graphics Council.

Workshops

The office assists the university's colleges, schools, and departments in planning, organizing, and conducting short, often intensive workshops that feature hands-on experiences. Participants may explore new areas of interest or update skills, such as web site or computer workshops. Professional development is also provided by many education workshops offered to teachers throughout the summer session. Science, journalism, art or travel/study are all a part of the diversified workshop offerings each year.

For more information, contact

Director

Continuing Education, Conferences,
and Workshops
Ohio University
Haning Hall 102
Athens OH 45701-2979
Telephone 740-593-1776
E-mail continuing.education@ohio.edu
World Wide Web www.ohio.edu/continuinged/

Summer Sessions

During two five-week and convenient, varied format summer sessions, many undergraduate and graduate courses, workshops, and special programs are offered on the Athens and regional campuses and on-line. Students experience a relaxed campus atmosphere, smaller classes, a friendly and diverse student body, unique and specialized classes, and many extracurricular events. The summer sessions provide students with an extra quarter to begin a degree, earn a teaching certificate, learn a new language, update professional skills, or catch up on courses.

For further information, contact

Director

Summer Sessions
Ohio University
Tupper Hall 308
Athens OH 45701-2979
Telephone 740-593-2583
1-888-551-6446
E-mail summer.sessions@ohio.edu
World Wide Web www.ohio.edu/summer/

Independent Study

The Independent Study Program provides several options for earning credit in Ohio University courses without some of the limitations of the traditional university structure. Independent Study allows you to learn at the time and place suited to your own particular needs. Courses completed through any of the Independent Study options earn Ohio University resident credit, which can be applied to an Ohio University degree program or transferred to another institution (subject to its restrictions).

Independent Study Courses by Correspondence are the most structured independent learning options. The faculty members prepare a course guide, which may be presented in print, through audiocassette, videocassette, or computer disk, or at a site on the internet. The content is divided into lessons with submitted assignments at the end of each lesson, which allow you and the faculty member to participate in a dialogue that may be conducted by postal mail, fax, or e-mail. Supervised examinations are generally required, although in some courses, a project or paper may be required instead. You may arrange to take examinations in your own location.

Independent Study projects can sometimes be arranged in undergraduate courses not currently available as independent study courses. These arrangements are made on an individual basis and are contingent upon the approval of the department in which the course is offered and the availability of a qualified faculty member willing to direct the project. You and the faculty member agree upon the conditions that must be fulfilled for credit to be awarded. The work may include a variety of readings, papers, projects, and examinations. This option is most successfully used by experienced students.

Course Credit by Examination represents the least structured method of obtaining college credit through the Independent Study Program. You enroll in the course in which you wish to obtain credit by examination and receive a brief syllabus that describes the nature of the course, the textbooks and other materials to study, and the type of examination you can expect. You prepare for the examination without intermediate assistance from a faculty member. Letter grades, including failures, are recorded. Credit is awarded for a passing grade.

The College Level Examination Program (CLEP) is especially useful for adults who have had no previous college courses but whose work or life experiences may be the basis for college credit. It is also useful for beginning college students who have had an enriched high school experience. The program is sponsored by the College Entrance Examination Board, and the Independent Study office serves as an open test center administering examinations by appointment on the third Saturday of each month. Subject to approval by the appropriate department in each case, the university will allow credit for satisfactory performance on the CLEP subject-matter examinations provided that the examinations are taken prior to formal enrollment at Ohio University. The university does not award any credit for scores achieved on the CLEP General Examinations. Detailed information is available from the Independent Study office.

For further information, contact

Director

Independent Study
Ohio University
Tupper Hall 302
Athens OH 45701-2979
Telephone 740-593-2910/1-800-444-2910
E-mail independent.study@ohio.edu
World Wide Web www.ohio.edu/independent/

Regional Campuses

Charles Bird
Vice President
Regional Higher Education

Stephen M. Flaherty
Associate Vice President
Regional Higher Education

Delbert Meyer
Dean, Chillicothe Campus

James W. Newton
Dean, Eastern Campus

John Furlow
Interim Dean, Lancaster Campus

Bill W. Dingus
Dean, Southern Campus

James Fonseca
Dean, Zanesville Campus

In addition to the Athens campus, Ohio University has five campuses located in Chillicothe, Ironton, Lancaster, St. Clairsville, and Zanesville. The primary objective of the regional campuses is to offer a broad program at the freshman and sophomore levels as well as selected upper-division and graduate courses. Each location has a full two-year curriculum in the arts and sciences, business administration, and education, with selected courses in such specialized fields as engineering and fine arts. You are eligible to earn the Associate in Arts or the Associate in Science degree after completing an approved two-year program of study. Available at some locations are specialized two-year programs leading to the Associate in Applied Business or Associate in Applied Science, designed as preparations for specific career opportunities in the immediate geographical area. In selected areas, you may pursue upper-level and graduate courses and can complete baccalaureate degrees in general business, education, criminal justice, specialized studies, and nursing. Regional campuses offer, on a rotating basis, selected graduate degree programs in their service areas. Regional campus associate's degree programs are listed in the University College section of this catalog.

Regional campuses have an open admissions policy for high school graduates. Ohio high school graduates who can commute from home to one of the regional campuses will be admitted as regular full-time or special part-time students. This decision is based on the high school transcript, Scholastic Aptitude Test, or American College Test (preferred). The regional campuses have no residence halls.

Chillicothe

Ohio University–Chillicothe, founded in 1946 as the first regional campus in Ohio, is located on a 100-acre campus on the western edge of Chillicothe, 45 miles south of Columbus in rural south central Ohio. The Chillicothe campus offers two-year technology programs in business management, environmental engineering, hazardous materials, human services, law enforcement, nursing, office technology, and security/safety, as well as the Associate in Arts, Science, and Individualized Studies, and baccalaureate degrees mentioned above.

Eastern

Ohio University–Eastern, established in 1957, is located in rural Belmont County. The campus has taken a leadership role in providing increased access to education with the development of audio, video, and Web site courses. A new 50,000-square-foot multipurpose health and physical education building, the Ney Center, was dedicated in October 1997. The Ney Center provides many additional services to faculty, staff, students, and the community. Two-year programs are offered in preprofessional science and math areas including medicine, dentistry, pharmacy, physical therapy, veterinary science, environmental science, and engineering

specialties. Ohio University–Eastern also offers Associate in Arts, Associate in Science, and selected baccalaureate and master's degree programs.

Lancaster

Established in 1956, Ohio University–Lancaster is situated on 113 acres on the northern edge of Lancaster. It serves students throughout central southeastern Ohio by providing the academic foundations of a university education as well as career-oriented professional and technical programs and a variety of cultural opportunities. Ohio University–Lancaster offers two-year technology programs in accounting, business management, child development, computer science, electronics, law enforcement (in cooperation with the Chillicothe campus), medical assisting, and office technology, as well as Associate in Arts, Science, and Individualized Studies degrees. Baccalaureate degrees are available in general business, elementary education, criminal justice, specialized studies, nursing, and interpersonal communication in human services.

Southern

Ohio University–Southern was established in 1956 and is located in Ironton, at the center of the metropolitan area that forms the tristate region of Ohio,

Kentucky, and West Virginia. Enrollment has more than doubled in the last decade, leading to construction of three new facilities that include classrooms, an auditorium, a library, computer laboratories, a student services center, science laboratories, and offices. Ohio University–Southern offers two-year technology programs in accounting, business management, electronic media, electronics, equine studies, human services, law enforcement, office technology, and travel and tourism. Associate in Arts, Associate in Science, and baccalaureate degrees mentioned above are also offered.

Zanesville

Founded in 1939, initially as an adult education center, Ohio University–Zanesville was established as a regional campus in 1946. It shares a 179-acre campus with Muskingum Area Technical College. Ohio University–Zanesville offers the first two years of more than 100 academic majors as well as bachelor's degrees in education, general business, specialized studies, nursing, and criminal justice; and associate's degrees in science, arts, nursing, electronic media, and individualized studies. The campus offers a wide variety of graduate and noncredit programs as well. The nationally accredited Zanesville nursing program has prepared registered nurses for more than 30 years.

Courses of Instruction

Catalog Numbers. The catalog number indicates the student classification for which the course is primarily intended:

001–099	Noncredit courses
100–299	Undergraduate general program
300–499	Undergraduate advanced or specialized program

Within the College of Arts and Sciences, the alphabetical catalog-number suffixes -I and -O generally are not used. Other alphabetical suffixes have specific meanings: -H, departmental honors courses; -J, junior-level composition courses; -T, honors tutorial courses; -X, study abroad courses.

Credit. Credit for a course is indicated by the number or numbers in parentheses following the course title. It may be expressed (3), (1–3), or (2 or 3).

A course with one quarter hour of credit (1) is the equivalent of one recitation or two or more laboratory periods per week throughout a quarter.

In a course carrying variable credit, the credit may be expressed (1–4, max 8), indicating that one hour is the minimum and four hours the maximum amount of credit allowed for the course in one quarter. However, you may enroll in the course any number of times and for any number of credit hours within the quarter limit, provided the total registration for the course does not exceed the overall maximum.

Courses that satisfy one of the university General Education Tier I or Tier II requirements are indicated by a notation on the title line. Tier I courses are marked either (1E) for English composition or (1M) for quantitative skills; Tier II designations are (2A) applied sciences and technology, (2C) cross-cultural perspectives, (2H) humanities and fine arts, (2N) natural sciences and mathematics, and (2S) social sciences.

Courses that satisfy General Education Tier III requirements are grouped under the heading Tier III.

Prerequisites. Course prerequisites are indicated at the beginning of the course description, following the abbreviation "Prereq." If you have any doubts about whether you have fulfilled prerequisites due to changes in the numbering system over the past several years, check the course titles and consult with your advisor and the office of the dean. Even if you have not met the prerequisites, you may add a course by obtaining the instructor's permission. Once you have completed an advanced course, you may not subsequently enroll in a prerequisite course for credit.

If a course is offered for other than the normal academic year of fall, winter, and spring quarters, this fact is noted in parentheses after the prerequisite. Such courses are offered only in the quarters specified.

Instructors. Unless otherwise indicated in italics following the quarter specification in the courses description, the course may be taught by any member of the staff of the department. This course listing is verified as of May 1998.

Fees. When a course requires a private instructional fee, the amount is stated in the course description.

Rank. The minimum student rank or standing, when applicable, is indicated by the following abbreviations:

Freshman: fr

Sophomore: soph

Junior: jr

Senior: sr

Unless the prerequisite states that the course is not open to students above the stated rank (e.g., "fr only"), you can enroll if you are at or above that rank.

Lecture and Laboratory Hours.

Lecture, laboratory, and recitation hours are respectively abbreviated "lec," "lab," and "rec."

Schedule. A *Schedule of Classes* is available each quarter from the Registrar's Office.

Areas of Study. The following areas of study are included in this section. The course prefix follows each area.

Accounting (ACCT)
 Accounting Technology (ATCH)
 Aerospace Studies (AST)
 African American Studies (AAS)
 Anthropology (ANTH)
 Art (ART)
 Foundation Courses
 Art Education
 Ceramics
 Graphic Design
 Painting
 Photography
 Printmaking
 Sculpture
 General Courses
 Additional Art Courses
 Regional Campus Offerings
 Art History (AH)
 Aviation (AVN)
 Biological Sciences
 Biological Sciences (BIOS)
 Microbiology (MICR)
 Biology (BIOL)
 Business Administration (BA)
 Business Law (BUSL)
 Business Management Technology (BMT)
 Chemistry (CHEM)
 Classical Archaeology (CLAR)
 Classics in English (CLAS)
 Communication Systems Management (COMT)
 Comparative Arts (CA)
 Computer Science (CS)
 Computer Science Technology (CTCH)
 Dance (DANC)
 Deaf Studies and Interpreting (DSI)
 Design Technology (DTCH)
 Economics (ECON)
 Education
 Counselor Education (EDCE)
 Curriculum and Instruction (EDCI)
 Economic Education (ECED)
 Educational Administration (EDAD)
 Educational Media (EDM)
 Elementary Education (EDEL)
 International and Comparative Education (EDIC)
 Middle Childhood Education (EDMC)
 Professional Laboratory Experience (EDPL)
 Secondary Education (EDSE)
 Special Education (EDSP)
 Electronic Media (EM)
 Electronics Technology (ETCH)

Engineering, Chemical (CHE)
 Engineering, Civil (CE)
 Engineering, Electrical (EE)
 Engineering, Industrial and Systems (ISE)
 Engineering, Mechanical (ME)
 Engineering and Technology (ET)
 English
 English (ENG)
 Humanities (HUM)
 Environmental and Plant Biology (PBIO)
 Environmental Engineering Technology (EVT)
 Equine Studies (EQU)
 Film (FILM)
 Finance (FIN)
 Foreign Languages and Literatures
 Chinese (CHIN)
 French (FR)
 German (GER)
 Greek (GK)
 Indonesian/Malaysian (INDO)
 International Literature in English: Linguistics (ILL)
 International Literature in English: Modern Languages (ILML)
 Italian (ITAL)
 Japanese (JAPN)
 Latin (LAT)
 Modern Languages (ML)
 Russian (RUS)
 Spanish (SPAN)
 Swahili (SWAH)
 Geography (GEOG)
 Geological Sciences (GEOL)
 Hazardous Materials Technology (HMT)
 Health and Human Services (HS)
 Health Sciences
 Environmental Health (EH)
 Health Sciences (HLTH)
 Industrial Hygiene (IH)
 Hearing and Speech Sciences (HSS)
 History (HIST)
 Human and Consumer Sciences
 Child and Family Studies (HCCF)
 Food and Nutrition (HCFN)
 General Education (HCGE)
 Interior Design (HCID)
 Retail Merchandising (HCRM)
 Human Resource Management (HRM)
 Human Services Technology (HST)
 Industrial Maintenance Technology (IMT)
 Industrial Technology (IT)
 International Studies (INST)
 Interpersonal Communication (INCO)
 Journalism (JOUR)
 Law Enforcement Technology (LET)
 Linguistics (LING)

Management (MGT)
 Management Information Systems (MIS)
 Marketing (MKT)
 Materials Management Technology (MMT)
 Mathematics (MATH)
 Medical Assisting Technology (MAT)
 Military Science (MSC)
 Music (MUS)
 Applied Music
 Music Education
 Music History and Literature
 Independent Studies in Music
 Music Theory and Composition
 Music Therapy
 Nursing
 Associate's Degree Program (NURS)
 Baccalaureate Program for RNs (NRSE)
 Office Technology (OTEC)
 Ohio Program of Intensive English (OPIE)
 Operations (OPN)
 Philosophy (PHIL)
 Physical Therapy (PT)
 Physics and Astronomy
 Astronomy (ASTR)
 Physical Science (PSC)
 Physics (PHYS)
 Political Communication (POCO)
 Political Science (POLS)
 Professional Communication (PRCM)
 Psychology (PSY)
 Quantitative Business Analysis (QBA)
 Real Estate Technology (REAL)
 Recreation and Sport Sciences
 Athletic Training (RSAT)
 Physical Education Activity (PED)
 Physical Education and Sport Sciences (PESS)
 Recreation Studies (REC)
 Security/Safety Technology (SST)
 Social Work (SW)
 Sociology (SOC)
 Telecommunications (TCOM)
 Theater (THAR)
 Tier III (T3)
 Travel and Tourism (TAT)
 University College (UC)
 University Professor (UP)
 Visual Communication (VICO)
 Women's Studies (WS)

Accounting (ACCT)

101 Financial Accounting (4)

Prereq: Tier I math or higher placement. (fall, winter, spring, summer) Introduction to the accounting process and external financial reporting. Introduction to compound interest concepts.

102 Managerial Accounting (4)

Prereq: 101, ECON 103. (fall, winter, spring, summer) Uses of accounting information for making managerial decisions. Study of cost behavior, overhead costs allocation, basic cost accumulation systems, elementary capital budgeting, master and flexible budgets, and cost control.

217 Introduction to Taxation (4)

Introduction to process of taxation with emphasis on broad provisions of federal income tax as it applies to individuals. Required for accounting major.

218 Computer Application Software for the Small Business (4)

Prereq: 102, BUSL 255, MIS 100, or perm. Instructs students in hands-on use of accounting software on personal computers; provides survey of record keeping for small business, including tax reporting obligations.

298 Internship (1)

Prereq: perm. Internship experience that provides on-site exposure to general business operations and procedures. Intended for experiences following the freshman year.

303 Intermediate Accounting I (4)

Prereq: 102. (fall) In-depth study of conceptual framework of accounting, disclosure standards for general purpose financial statements, and measurement standards for cash, receivables, inventories, and associated revenues and expenses, including application of compound interest techniques. Required for accounting major.

304 Intermediate Accounting II (4)

Prereq: 303, and perm. (winter) Measurement and reporting standards for tangible and intangible operating assets, investments, liabilities, contingencies, stockholders' equity, and special problems of revenue recognition. Required for accounting major.

305 Intermediate Accounting III (4)

Prereq: 304. (spring) Measurement and reporting standards for pensions, capital leases, interperiod tax allocation, dilutive securities and earnings per share; accounting changes and error correction; statement of cash flows; financial statement analysis; special disclosure standards; financial reporting and changing prices. Required for accounting major.

310 Cost Accounting (4)

Prereq: 102. Emphasis on manufacturing and service organizations. Topics include process costing, activity-based costing/ activity-based management, analysis of cost variances, and complex capital budgeting issues. Required for accounting major.

311 Industrial Accounting (4)

Prereq: 101, 102, jr. Primarily for nonaccounting majors. Explains how accounting data can be interpreted and applied by management in planning and controlling business activities. Shows how accounting data can help solve problems confronting management. Attention also given to use of accounting data by investors, potential investors, and lenders. Concentration on use of data rather than collection and presentation.

312 Accounting for Health Care Organizations (4)

Prereq: 101, 102, jr. Introduces student to use of accounting data in planning and controlling health care organizations. Basic cost accounting theory and applications stressed as aids to fee setting, budgeting, asset acquisition functions.

317 Federal Income Taxes (4)

Prereq: jr or perm. Continuation of 217 providing an overview of the impact of federal income taxes on conducting business as individuals. Required for accounting major.

340 Advanced Cost Accounting (4)

Prereq: 310, jr. Current cost accounting topics. May include case studies, ABC costing and asset variation, and role playing.

345 Accounting Systems and Internal Control (4)

Prereq: 303 or perm. Computer technology as it relates to design, implementation, and operation of accounting information systems. A major portion of the course devoted to internal control procedures. Required for accounting major.

347 Tax Research (4)

Prereq: 317, jr. Advanced tax problems of individuals, partnerships, and corporations with emphasis on tax research and research methodology.

398 Internship (1-4)

Prereq: perm. Internship experience that provides opportunities to learn by participating in day-to-day activities of a business concern for at least four consecutive weeks. Intended for experiences following the sophomore year.

406 Advanced Accounting (4)

Prereq: 305. Business mergers, consolidated financial statements, partnerships, international operations, corporate bankruptcy, and branch office accounting.

407 Seminar in Current Topics (4)

Prereq: 305. Research in current accounting issues, including written and oral reports of findings.

413 Governmental and Nonprofit Theory and Practice (4)

Prereq: ACCT major, 303 or perm. Accounting theory for governmental and nonprofit organizations: financial reporting; fund accounting; budgeting and control.

451 Auditing Principles (4)

Prereq: 305 or perm. (fall) Basic concepts and applications in external, internal, and governmental auditing. Includes an introduction to current audit technology. Required for accounting major.

452 Advanced Auditing (4)

Prereq: 451. Auditing theory and practice with emphasis on current issues, professional standards, ethics, legal liability, special reports, special industries, and advanced auditing techniques.

457 Advanced Tax (4)

Prereq: 317 or perm. Tax aspects of corporate organizations; distributions; reorganizations and liquidations; partnerships; Sub S corporation; estates and trusts.

491 Seminar (3, 4, or 5)

Prereq: perm. Selected topics of current interest in accounting area.

497 Independent Research (1-15)

Prereq: perm. Research in selected fields of accounting under direction of faculty member.

498 Internship (1-4)

Prereq: perm. (fall, winter, spring, summer).

Accounting Technology (ATCH)

The following courses for the A.A.B. in accounting technology are available on the Lancaster and Southern campuses.

103 Financial Accounting Procedures (4)

(fall) Fundamental accounting principles for service businesses and merchandising enterprises; debits, credits, and double entry; journalizing and posting; accounting systems and special journals; accounting for purchases and sales, cash, receivables, interest, revenue, and expense; financial statement preparation, including adjusting and closing procedures.

104 Financial Accounting Procedures (4)

Prereq: 103. (winter) Accounting procedures for inventory, current liabilities, financial statement analysis, and annual reports; managerial accounting concepts and principles; job order cost systems.

105 Financial Accounting Procedures (4)

Prereq: 104. (spring) Long-term investments; plant assets; intangible assets; long-term liabilities; accounting procedures for owners' equity in single proprietorship, partnership, and corporation; statement of cash flow.

203 Tax and Governmental Reporting Procedures (4)

Prereq: 104. (spring) Consideration of data sources, forms, and filing requirements for payroll taxes, income taxes, withholding taxes, FICA, sales taxes, unemployment reports, and wide variety of other specialized local, state, and federally required reports and procedures.

204 Electronic Data Processing Accounting Procedures (4)

Prereq: 105, CTCH 125 or equiv, and MATH 113. (fall) Use of computers to perform both specialized and routine accounting functions formerly done by hand. An integrated general ledger program and an electronic spreadsheet program are used.

205 Manufacturing Accounting I (4)

Prereq: 105, MATH 113. (winter) Study of cost behavior; data collection procedures and reports for manufacturing firms, job order costs; process costs; standard costs; overhead allocation methods.

206 Manufacturing Accounting II (4)

Prereq: 205. (spring) Continuation of 205.

209 Business Statistics (4)

(winter) Basic statistics, demonstrated and developed through problems typical of actual business situations. Procedures and applications of statistical analysis and inference as they relate to business activity.

225 Federal Income Tax Procedures (4)

Prereq: for credit, 203; for noncredit, perm. (fall) Comprehensive course in fundamentals of federal income taxation and preparation of individual, partnership, and corporation tax returns.

241 Auditing Procedures (4)

Prereq: 203. (spring) Study of purposes and scope of audits including audit objectives, professional ethics, audit files and working papers, legal responsibilities, internal control, tests of transactions, audit procedures and disclosure requirements, and preparation of audit reports.

299 Independent Study (1-5, max 10)

Prereq: perm. Supervised independent study projects in accounting technology.

Aerospace Studies (AST)

Air Force ROTC

The Department of Aerospace Studies offers three programs, all of which lead to a commission as a second lieutenant in the United States Air Force.*

The four-year program is designed for students who can begin Air Force ROTC with the fall quarter of their freshman year and complete aerospace studies requirements by their date of graduation. Students taking the four-year program begin by enrolling in AST 101 and 101L. Students starting Air Force ROTC in a quarter other than the fall of their freshman year can make arrangements to complete the program.

The two-year program is designed for students unable to take Air Force ROTC during their first two years of college. It is similar to the last two years of the four-year program. Consult the chair of the Department of Aerospace Studies during your first year (or, in any event, not later than the beginning of the winter quarter of your sophomore year) for instructions regarding application for this program.

The one-year program is limited to electrical engineering, computer science, and nursing majors. Consult the chair of the Department of Aerospace Studies for further information.

Entry into the Professional Officer Course (AST 300 and 400 series) is based upon a best-qualified selection process. Completion of the General Military Course (AST 100 and 200 series) does not guarantee entry into the Professional Officer Course (POC), but makes you eligible to compete for acceptance into the POC. After graduation and commissioning, you serve a minimum of four years active duty with the United States Air Force. For further information contact the chair of the Department of Aerospace Studies, Lindley Hall 232.

*Students enrolled in any program may compete for Air Force scholarships which pay full tuition, books, lab fees, and a tax-free monthly allowance.

101 Introduction to the U.S. Air Force (1)
(fall) Role of officer and subordinate, communication, and general organization of the United States Air Force.

101L Leadership Laboratory (1)
Prereq: Concurrent with 101. Provides a progression of experience to aid each individual's understanding of the Air Force and to develop teamwork, followership, and leadership skills.

102 Air Force Missions (1)
(winter) The mission of major Air Force command organizations, base services, professions, and an introduction to flight.

102L Leadership Laboratory (1)
Prereq: Concurrent with 102. Provides a progression of experience to aid each individual's understanding of the Air Force and to develop teamwork, followership, and leadership skills.

103 Defense Policy and Forces (1)
(spring) Defense policy, general purpose, and Air Reserve Forces with emphasis on the role of the officer in this arena.

103L Leadership Laboratory (1)
Prereq: Concurrent with 103. Provides a progression of experience to aid each individual's understanding of the Air Force and to develop teamwork, followership, and leadership skills.

201 History of Air Power (1)
(fall) History and development of air power in the U.S.

201L Leadership Laboratory (1)
Prereq: Concurrent with 201. Provides a progression of experience to aid each individual's understanding of the Air Force and to develop teamwork, followership, and leadership skills.

202 Air Power Today (1)
(winter) Covers Air Force concepts, doctrine, and employment; how technology has affected growth and development of air power.

202L Leadership Laboratory (1)
Prereq: Concurrent with 202. Provides a progression of experience to aid each individual's understanding of the Air Force and to develop teamwork, followership, and leadership skills.

203 Uses of Air Power (1)
(spring) Changing mission of defense establishment: how air power is employed in military, nonmilitary, and strategic operations.

203L Leadership Laboratory (1)
Prereq: Concurrent with 203. Provides a progression of experience to aid each individual's understanding of the Air Force and to develop teamwork, followership, and leadership skills.

204 Field Training (3)
(summer) Field training experience at various U.S. locations for military training and indoctrination through practical application of common military customs and courtesies.

301 Management-Concepts and Practices I (3)
(fall) Military professionalism and leadership theory; strengths and weaknesses of various leadership styles; review of responsibilities, authority, and functions of Air Force officers. Development of communication and leadership skills.

301L Leadership Laboratory (1)
Prereq: Concurrent with 301. Provides a progression of experience to aid each individual's understanding of the Air Force and to develop teamwork, followership, and leadership skills.

302 Military Professionalism and Leadership Theory (3)
Prereq: 301 or perm. (winter) Review of selected concepts, principles, and theories of management as applied in the Air Force. Continued development of communication and leadership skills.

302L Leadership Laboratory (1)
Prereq: Concurrent with 302. Provides a progression of experience to aid each individual's understanding of the Air Force and to develop teamwork, followership, and leadership skills.

303 Management-Concepts and Practices II (3)
Prereq: 302 or perm. (spring) Development of communication skills in the Air Force style and format. Emphasis on basic writing and briefing techniques; counseling fundamentals of the Air Force officer and the officer promotion system are also reviewed.

303L Leadership Laboratory (1)
Prereq: Concurrent with 303. Provides a progression of experience to aid each individual's understanding of the Air Force and to develop teamwork, followership, and leadership skills.

304 Advanced Field Training (1)
(summer) A variety of professional development training programs designed for students to experience active duty opportunities.

401 The Military and the American Society (3)
Prereq: 303 or perm. (fall) Study of the military and the professional soldier in democratic society and the military as socializing institution. Communicative skills via student oral presentations and written reports emphasized.

401L Leadership Laboratory (1)
Prereq: Concurrent with 401. Provides a progression of experience to aid each individual's understanding of the Air Force and to develop teamwork, followership, and leadership skills.

402 Strategy and the Use of Force (3)
Prereq: 401 or perm. (winter) Evaluation of strategy and study of arms control, general and limited war. Continues communicative skills via student presentations and written reports. Emphasizes qualities and techniques of leadership.

402L Leadership Laboratory (1)
Prereq: Concurrent with 402. Provides a progression of experience to aid each individual's understanding of the Air Force and to develop teamwork, followership, and leadership skills.

403 American Defense Policymaking (3)
Prereq: 402 or perm. (spring) Organization and case studies in defense policymaking and bureaucratic decision making. Continues communicative skills and techniques of leadership. Examines military law and topics preparing officer candidates for active duty.

403L Leadership Laboratory (1)
Prereq: Concurrent with 403. Provides a progression of experience to aid each individual's understanding of the Air Force and to develop teamwork, followership, and leadership skills.

African Studies

See International Studies.

African American Studies (AAS)

101 African American History I, 1526-1865 (4) (25)
Survey of key economic, political, ideological, and social elements that shaped destinies of black people in the United States from 1526 to 1865.

106 Introduction to African American Studies (4)
Interdisciplinary course designed to introduce students to field of African American studies. Focuses upon subject matter, scope, assumptions, and methods of various academic disciplines that are constituent parts of African American Studies Program, and seeks to show how these disciplines collectively contribute to broadest understanding of African American experience and, thus, of the general American experience from a black perspective.

110 Introduction to African American Literature (4) (2H)
Provides general introduction to and overview of canon of African American literature. By examining a variety of texts, genres, themes, and issues in literature by black Americans, this course seeks to establish foundations and achievements of African American literary tradition.

135 History of Colonialism (4)
Historical-social analysis of development of colonialism in Africa, how colonialism led to underdevelopment of Africa, and review of ideological justification of this phenomenon. Special focus placed on development of colonialism in 19th and 20th centuries up to Year of Africa (1960). Specific attention given to ideological contribution of Frantz Fanon to colonial situation. Combination of books in fields of history, psychology, economics, and literature so student will obtain integral picture of colonial period.

150 Introduction to Black Media (5) (2H)
Historical analysis of images of blacks in cinema, radio, and television programming; origin and development of stereotypes; relationship of these images to societal developments; examination of alternatives.

180 Introduction to African American Education (4)
Explores historical and philosophical foundations, development of education for African Americans, and formulations of dual educational system. Makes comparisons and contrasts among various philosophical views which have shaped formation of American educational institutions, theories, and practices.

202 African American History II, 1865 to Present (4) (2S)
Survey of key economic, political, ideological, and social elements that have shaped destinies of black people in the United States from 1865 to present.

210 African American Literature I (4) (2H)
First of 2-qtr survey of African American literature. Covers period from about 1760 to end of Harlem Renaissance. Focuses on such writers as Phillis Wheatley, Frederick Douglass, Charles W. Chesnut, Paul Laurence Dunbar, James Weldon Johnson, and writers of Harlem Renaissance—Claude McKay, Jean Toomer, Langston Hughes, Countee Cullen, Zora Neale Hurston. Folk literature and other materials important to an understanding of African American literary tradition will be included.

211 African American Literature II (4) (2H)
Begins where 210 ends. (However, 210 not a prereq.) Treats African American literary expression from around 1940 to present. Writers included are Richard Wright, Margaret Walker, Gwendolyn Brooks, Ralph Ellison, James Baldwin, Amiri Baraka, Ishmael Reed, and others who have contributed to African American literary tradition.

220 Theories of African American Social Development (4)
Exploration of theories or political policies and economic processes, their interrelations, and their influence on socioeconomic character of black community.

225 History of the Black Worker (4)
Analysis of historical role of black labor force in American economy, with emphasis on patterns of relationships between black workers and general organization of American labor movement.

235 Comparative Neo-Colonialism (4)
Attention paid to historical-social analysis of neo-colonialism—how new methods and maneuvers used to exploit labor and resources in 20th century. Focus on Africa, although students' areas of interest will also be accommodated.

250 Foundations of African American Arts and Culture (4) (2H)
Provides introductory examination of African American experience through concern with sociocultural approaches to modes of thought, cultural institutions, historical experiences, lifestyles, and artistic expression. As cultural history, designed to provide understanding of foundations, sources, and history of ideas of African American experience. Considers influence of traditional African arts and culture on development of cultural traditions in Americas, early African American arts and crafts, and development of the African American culture tradition from slavery to present.

254 History of Injustice in the United States (5)
Critical analysis of problems in the U.S. Special attention given to (1) education, (2) voting, (3) social services, (4) fair housing, and (5) legal system.

310 Contemporary African American Literature (4)
Focuses on African American literature of the 1960s and since. Concerns writers who emerged as major figures during this period. Attention also given to major literary, cultural, and aesthetic developments that fashioned new favorability among black writers.

311 African American Literature: Special Topics (4)
Prereq: soph. Intensive study of selected theme or topic. Course will vary from qtr to qtr; thus students should check departmental brochure to ascertain topic any given qtr.

315 Literature of West Africa (4)
Prereq: jr or sr. Intensive examination of representative works, authors, and movements. Using cultural and sociopolitical perspectives, course seeks to define style, structure, and mode and to indicate how these interrelate, help to determine meaning, form, etc. Authors like Achebe, Armah, Senghor, Soyinka, Laye and Oyono, Mongo Beti and Kofi, Awoonor, and Ama Ata Aidoo considered, to analyze, e.g., Negritude, phases in West African writing during last 30 yrs. Essays and critical literature given some attention.

316 Literature of South Africa (4)
Explores development of South African literature since 1940s and, while confining itself to writings of black writers of all complexions, examines how this literature reflects conditions of life of the majority of South African population. Course entails vast landscape of structured background reading on history, politics, economics, and demography of South Africa and on aesthetics of particular cultures.

317 Caribbean Literature: Major Authors and Movements (4)
Survey of literature in English and translations written by Caribbean authors. Major themes and literary movements of Caribbean discussed: Negritude, Negrismo, ancestral imperative, search for identity, reordering of group images. Transcultural and syncretic elements discussed. Outside readings essential for class contributions.

340 The Black Community in Post-World War II (4)
Survey of black community's development during 20th century and its relation to development of larger American society over same period. Focus on post-WW II community processes.

341 African American Personality (4)
Examination of organization and structure of African American personality within American and African sociopsychological contexts. Special emphasis on various forces which shape African American personality.

345 The Black Woman (4)
Prereq: soph and perm. Roles of black women in education, social development, and stabilization of their families. Impact of history of oppression and struggle on social psychology of black women.

350 African American Arts and Artists (4) (2H)
Intensive study of African American artists, aesthetic principles, and African American arts movements from the late 19th century to present. Development of black professional artists, artists of Harlem Renaissance, black cultural nationalist art, modernism and African American artists, social protest, and street murals among topics covered.

352 Blacks in Contemporary American Cinema (4) (2H)
Prereq: 150. This course explores the representation of African Americans in contemporary American cinema since the 1970s. It also examines the contributions of African Americans on both sides of the camera, as well as various themes conveyed in the films of the period.

353 Survey of Black Independent Cinema (4)
Prereq: 150. Examines the history and current status of independent black filmmaking. Independents have often served as a counter to Hollywood's limited portrayal of African Americans. The impact, relevance, and aesthetics of films from the black voice will be studied.

355 History of African American Music I, Slavery-1926 (4)
Sociohistorical examination of African American music and its role in shaping American music. Recordings and guest lectures used as integral part of course. Examines spirituals, rural blues, ragtime, and early jazz.

356 History of African American Music II, 1926-Present (4)
Socio-historical analysis of African American music and its role in shaping modern American music. Recordings and guest musician/lecturers used as integral part of course. Examines big band era, urban blues, bebop, rhythm and blues, hard bop, black classical composers, contemporary popular, and avant-garde musics.

360 Black Politics in the United States (4)
Examines American political system from perspective of black political behavior and relationship of blacks to political system at national, state, and local levels. Includes analysis of civil rights movement as well as sociopolitical movements associated with ideologies of black nationalism and black liberation.

364 Comparative Study of Injustice (4)
Comparative analysis of different approaches to civil and human rights in selected developed and developing countries. Review of theory of justice and political consequences in chosen countries.

368 Black Political Thought (4)
Analysis of basic tenets of black thought in U.S. Emphasis on theoretical dimensions of post-Civil War black social and political thinkers.

370 Urban Violence (4)
Systematically examines empirical and theoretical literature on urban violence, particularly riots during 1960s.

380 Seminar in African American Education (4)
Prereq: 8 hrs of education or social sciences. An examination of critical issues in contemporary society that affect the education of African Americans. Topics to be explored include status and preparation of teachers, curriculum development, educating black children for the 21st century, multicultural education, impact of computer technology and scientific developments as they affect African American students, teachers, and parents.

411 Literature Seminar (4)
Subject varies. May be repeated as subject changes.

430 Social Theories of Underdevelopment (4)
Systematic review of problems of social change in developing areas from multidisciplinary point of view. Due attention given to problems of agrarian reform, urbanization as social process, regional disparities within framework of single nation/state inter alia. Comparative analysis of problems of social development undertaken typologically.

432 Third World National Movements (4)
Comparative study of varieties of national oppression. Question of ethnonationalism, clerical nationalism, and other forms of response to oppression reviewed. Due attention given to various notions of Pan-Africanism and Black Nationalism in U.S., Africa, and Latin America.

440 The Black Child (5)

Entails in-depth analysis of black child, impact and effects of growing up black in America. Specifically, seeks to determine effects and role of family, school, neighborhood, economic status, and society at large on sociological and psychological development of black child.

460 Social Processes:**Third World Urbanization (4)**

Deals with laws of development of urbanization as it relates to anatomy of civil society. Special focus on how current urban crisis related to structural, cyclical, and general crisis of modern society. Political economy of urban ghetto both in U.S. and Third World singled out for special inquiry. New thought given to suburbanization process so-called "Post City Phenomenon," etc. Due focus on connection between urban crisis, racial problems, and possibility of American apartheid. Urbanization as social process in Africa, Asia, and Latin America studied comparatively.

482 The Black Family (4)

Black family in America and its important role in development of ethnic differences, strengths, and strategies.

490 Independent Study (1-5)

Prereq: perm. Primarily for students interested in concentrated study in specific area in cooperation with advisor.

Anthropology (ANTH)**101 Introduction to Cultural Anthropology (5) (2C)**

Basic concepts; introduction to various world cultures; nature of cultural diversity; evolution of sociocultural systems. Qualifies as Tier II Third World Cultures course.

201 Introduction to Biological Anthropology (5) (2N)

Evolutionary theory; primates; fossil record of human evolution; mechanics of evolution; human variation.

202 Introduction to Anthropological Archaeology (5) (25)

Basic concepts; how archaeologists reconstruct extinct societies and explore cultural evolution.

301 Anthropology and Film (5)

Prereq: 101. The use of film as a medium for recording cultural information; as a technique for observation, analysis, and interpretation of cultural information; and as a means for presenting information about cultures, human adaptation, human evolution, and anthropological research itself.

345 Gender in Cross-Cultural Perspective (4)

Prereq: 101 and soph. Considers the range of cultural diversity in defining gender roles; comparative approach towards understanding the behaviors and perceptions associated with gender.

348 Education: Cross-Cultural Perspectives (4)

Prereq: 101. Survey of ways of growing up in various cultures, emphasizing relationships between individual and culture.

350 Economic Anthropology (4)

Prereq: 101. Survey of economic arrangements found in various types of cultural systems; economic exchange systems in non-Western cultures; anthropological analysis of economic life.

351 Political Anthropology (4)

Prereq: 101. Anthropological exploration of various political systems around world; cross-cultural examination of political leadership, political power, conflict, etc. Emphasis on non-Western, non-industrialized cultures.

355 Medical Anthropology (4)

Prereq: 101. Non-Western medical systems and theories of health and disease causation; social basis for diagnosis and cure; curing rituals; symbolism of health and illness. Ecological factors in health and nonhealth; systemic connections between health concepts, culture, and environmental situation.

356J Writing in Sociology and Anthropology (4) (1J)

Prereq: jr or 13 hrs sociology and/or anthropology. Jr-level composition course for sociology and anthropology majors and students in related fields. Combines writing instruction with consideration of substantive social science topic. Students will try various genres of social science writing (book reviews, grant proposals, field notes, interviews, etc.).

357 Anthropology of Religion (4)

Prereq: 101. Anthropological consideration of ritual and myth in various cultures; shamanism, trance, taboo, etc., in social systemic, symbolic, structuralist, and ecological perspective. Comparison of different anthropological frameworks for understanding religious phenomena in an objective, social scientific way.

361 North American Prehistory (4)

Prereq: 202. Analysis and interpretation of the cultural evolution of indigenous North American Indian cultures. Emphasis placed on those cultures from Ohio and the Midwest.

363 Gender in Prehistory (4)

Prereq: 101, 202, and soph. Examines the application of gender studies as an analytic tool for archaeological reconstructions. Considers evolving gender roles within a wide range of past cultural settings.

364 Near East Prehistory (4)

Prereq: 202. Scrutiny of the archaeological data and consequent reconstruction of the evolutionary process affecting cultures in the Near East. Analysis begins with the earliest occupation of the region and ends with the establishment of various state systems.

366 Cultures of the Americas (4)

Prereq: 101, 202. Survey of past and/or present cultural diversity present in North, South, or MesoAmerica or the Caribbean with emphasis on application of anthropological method and theory to understanding of particular sociocultural systems. Emphasis varies by instructor.

367 South American Prehistory (4)

Prereq: 202. Reconstruction, analysis, and interpretation of the process of cultural evolution as expressed by the ancient societies of South America.

370 Mexican/Central American Prehistory (4)

Prereq: 202. Reconstruction, analysis, and interpretation of the process of cultural evolution in pre-Hispanic Mexico and Central America. No credit if 368 taken.

371 Ethnology (4)

Prereq: 101. In-depth consideration of topics covered in 101; anthropological theory and frames of analysis.

372 Cultures of the World (4)

Prereq: 101. Ethnographic sampling of similarities and differences in cultural systems found around the world and through time. Ethnographic focus varies. May be taken twice for credit.

373 Perspectives in Anthropology (4)

Prereq: 101, 201, 202. Includes topics from the following areas of anthropological concern: nature of scientific inquiry, ethnology, linguistics, archaeology, biological anthropology.

375 Culture and Personality (4)

Prereq: 101; psychology recommended. Interrelations between personality systems and cultural systems.

376 Culture Contact and Change (4)

Prereq: 101. Impacts of cultures upon one another; immediate and subsequent cultural adaptations; theory of change.

377 Peasant Communities (4)

Prereq: 101. Focuses on folk component of state societies.

378 Human Ecology (4)

Prereq: 101, 201. Analysis of mutual and reciprocal relations between sociocultural systems and other systems in their environment; ecosystems and biotic communities in which human populations are included.

381 Cultures of Sub-Saharan Africa (4)

Prereq: 101. Survey of cultural diversity present in Sub-Saharan Africa with emphasis on application of anthropological theory and method to understanding of particular sociocultural systems.

383 Cultures of Latin America (4)

Prereq: 101. Survey of cultural systems in Latin America with focus on application of anthropological theory.

385 Cultures of Southeast Asia (4)

Prereq: 101. Survey of cultural systems of island and mainland Southeast Asia.

386 Problems in Southeast Asian Anthropology (4)

Prereq: 101. Selected topics of current theoretical concern relating to Southeast Asia; comparison of different frames of analysis.

387 Pacific Island Cultures (4)

Prereq: 101. Anthropological exploration of Pacific island cultures and their evolution.

388 Cultures of the Middle East (4)

Prereq: 101. Survey of sociocultural systems in Contemporary Middle East and North Africa with applications of anthropological theory to analyze cultural similarities and differences. (Usually Zanesville campus only.)

391 Primate Social Organization (4)

Prereq: 101, 201. Exploration of nonhuman primate social behavior and social organization from anthropological perspective, with special focus on development of human cultural behavior.

399 Readings in Anthropology (1-3, max 6)

Prereq: major, 20 hrs ANTH. Supervised readings in various fields of anthropology: archaeology, ethnology, linguistics, biological anthropology.

452 Anthropological Archaeology (4)

Prereq: 202 and one 300-level course in archaeology or perm. Explores contemporary archaeology in which goals, methods, and theory are considered within the framework of science.

455 Seminar in Methodology and Field Research (4, max 8)

Prereq: 20 hrs ANTH. Practical training in application of methods to data in one of the following subfields: archaeology, ethnology, or biological anthropology.

460 Kinship

Prereq: 20 hrs ANTH. Theoretical framework and ethnographic work on kinship systems of various world cultures; non-Western family systems; kinship terminology, social change in kinship systems.

465 Field School in Ohio Archaeology (5-10)

Prereq: one 300- or 400-level ANTH course. Actual archaeological investigation of prehistoric Indian sites in Ohio. Involves survey, excavation, and laboratory analysis of materials, as well as lectures on anthropological archaeology as they pertain to Ohio.

472 History of Anthropological Thought (4)

Prereq: 20 hrs ANTH. In-depth examination of schools of anthropology as they have developed within various subfields at different times and places.

490 Independent Research in Anthropology (1–10, max 10)

Prereq: major, 20 hrs ANTH. Individual research in anthropology in specific problem areas in which student has demonstrated ability and interest.

492 Human Evolution (4)

Prereq: 201, jr. In-depth examination of evidence for biological macro-evolution of humankind. Hominoid and hominid fossil record; speciation; interpretation of fossil remains; and "fit" between paleontological and immunological approaches.

494A Seminar in Cultural Anthropology (4)

Prereq: 2 cultural ANTH courses at 300 level or above. Advanced course dealing with topics of current research interest in cultural anthropology. Topic varies according to individual course.

494B Seminar in Biological Anthropology (4)

Prereq: 373 or 391 or 492 or 496; jr. Advanced course dealing with topics of current research interest in biological anthropology. Topic varies according to individual course.

494C Seminar in Archaeological Anthropology (4)

Prereq: 361 or 363 or 364 or 367 or 370; jr. Advanced course dealing with topics of current research interest in archaeological anthropology. Topic varies according to individual course.

494D Seminar in Human Ecology (4)

Prereq: 2 ANTH courses at 300 level or above or perm. Advanced course dealing with topics of current research interest in human ecology. Topic varies according to individual course.

496 Human Diversity (4)

Prereq: 201, jr. Exploration of human biological diversity/variability with emphasis on the populationist approach, namely anthropological genetics and demography.

Archaeology

Classical Archaeology, see Classics.

Anthropological Archaeology, see Anthropology.

Art (ART)
Foundation Courses**110 Seeing and Knowing the Visual Arts (4) (2H)**

Introduction to perceiving and understanding meanings and organizational systems in traditional and contemporary visual arts in context of their social and cultural backgrounds.

112 Foundations Photography (4)

Introduction to techniques and art of photography.

113 Three-Dimensional Studies (4)

Studio projects in 3 dimensions exploring ordered and dynamic interactions of mass, plane, volume, and space. Introduction to processes and media. Not open to jr or sr art majors.

116 Drawing I: Descriptive Drawing (4)

Fundamental issues and concepts of drawing. Varied projects to develop the ability to perceive, interpret, and record information through an awareness of the conceptual and technical basis of drawing.

117 Drawing II: Concepts, Space, and Time (4)

Prereq: 116. Investigations of drawing concepts and methods that depict space and time. Creative problem solving and research activities to be emphasized.

118 Drawing III: Process and Synthesis (4)

Prereq: 117. Drawing from methodological, conceptual, and metaphorical points of view. Development of strategies for problem solving, building vocabulary, experimenting, and expanding concepts of drawing.

211 Foundations Concepts (4)

Prereq: 112, 113, 116. A studio course with an emphasis on the conceptual activity of art making. An introduction to a variety of methodologies for developing and executing ideas including research, assessment, analysis, and critical thinking. Particular attention given to conceptual structures and decision making processes.

212 Color: Perception and Practice (4)

Prereq: 112 or 101; 113; 116. Studio projects based on color perception, historic and cultural use of color, color theory, and color mixing. An examination of the function of color in the making of art.

Art Education**260 Foundations of Art Education (4)**

Prereq: 112, 113, 116. Explores the history, philosophy, and curriculum developments in art education. Intended for prospective majors in art education. Focus on early childhood education (grades pre-K through 3) in the visual arts.

360A Visual Art Media for the Elementary Teacher (3)

Prereq: jr. Introduction to the visual arts through: media, processes, techniques, and materials; creative problem-solving activities; developing a historical and multicultural awareness and understanding the visual vocabulary; and developing critical skills in description, interpretation, and analysis of art.

360B Visual Art Methods for the Elementary Teacher (3)

Prereq: jr, 360A or concurrent. Development of appropriate teaching methodologies and cross-disciplinary curriculum planning through: understanding the visual language development of the elementary child; integrating instructional strategies and subject areas; using performance-based assessment and evaluation through portfolios, journals, observation, interviews, and structured discussion groups.

461 Teaching Art in the Elementary School (6)

Prereq: 260, 461L concurrent, adm. to art education program. Emphasizes importance of art in elementary school curriculum. Traces evolution of children's graphic symbols. Focus on teaching methodologies, art materials, appropriate art media processes and techniques, diverse cultures; integrated curriculum (other subject areas, aesthetics, art history, and art criticism); performance-based assessment and evaluation for middle childhood education (grades 4–8).

462 Teaching Art in the Secondary School (4)

Prereq: 260, adm. to art education program. Prepares pre-service teacher for teaching in the secondary school. Development of appropriate curriculum structures including subject integration, diverse cultures, and life-centered issues; teaching methodologies; characteristics of the high school student—intellectual, physical, and emotional; studio art, media processes, and techniques; art history, aesthetics, and art criticism; performance-based assessment and evaluation.

Ceramics Studio Courses**221 Introduction to Ceramics I (5)**

Prereq: 112, 113, 116. Three-dimensional form exploration using additive construction processes. Simple Engobe, slips, and clay-body formulations accompany projects.

222 Introduction to Ceramics II (5)

Prereq: 112, 113, 116. Introduction to creative possibilities of potter's wheel. Functional projects using acquired decorative skills.

223 Introduction to Ceramics III (5)

Prereq: 221, 222. Increase in scale and scope of individual solutions. Intermediate throwing problems with the goal of developing skilled production abilities. Emphasizes utilitarian object making with a sensitivity toward quality of ware and value of the handmade object.

321A Intermediate Ceramics I (5)

Prereq: 223. Expanded 3-D investigation into ceramic as a material for contemporary personal expression. Scale and larger ceramic forms and techniques to achieve scale are introduced.

322A Intermediate Ceramics II (5)

Prereq: 321A. Exploration of alternative construction techniques in ceramics to foster expressive sophistication. Plaster and nonplaster molds are introduced as tools for ceramic construction.

323A Intermediate Ceramics III (5)

Prereq: 322A. Explores clay and glaze calculation techniques. Students investigate ceramic materials and firing processes relevant to producing ceramic art.

421A Advanced Ceramics (5)

Prereq: 323A. Development of skills and ideas to prepare for a career as a ceramic artist; personal research and development of techniques, ceramics history, and concepts are emphasized.

422A Ceramics Workshop (5, max 10)

Prereq: 421A. Traditional and nontraditional methods and concepts relating to the ceramic arts.

429 Ceramics Topics (3)

Prereq: major studio area School of Art. Preparation for senior presentation and portfolio (not a studio course).

Graphic Design Studio Courses**250 Graphic Design Principles (5)**

Prereq: 112, 113, 116. Explores principles of design through formal introduction to design methodology and theories of communication. Specific problems are developed from concept, through synthesis of form and semantic meaning, into visual communication.

251 Typography (5)

Prereq: 112, 113, 116. Typography as designer's tool and as communication. Emphasis on design of symbols and typefaces.

254 Letter Form (5)

Prereq: 112, 113, 116. Lettering as design and communication element. History and techniques of lettering and calligraphy.

255 Form and Content in Graphic Design (5)

Prereq: 112, 113, 116. Exploration of images, symbols, and iconography in graphic design. Solutions to problems are developed from concept through synthesis of form and content as visual communication.

351 Graphic Design: Junior Studio (5)

Prereq: 10 hrs 200-level graphic design, portfolio review, and perm. In-depth color theory and color design studies. Projects focusing on use of color in visual communication concepts and graphic design applications.

352 Graphic Design: Junior Studio (5)
Prereq: 351. Practical and experimental type design including typesetting, reproduction, and printing processes.

353 Graphic Design: Junior Studio (5)
Prereq: 352. The application of visual design concepts and principles. Projects in symbol design and design system applications.

392D Letterpress and Bookmaking (5)
Prereq: adm to major area School of Art. An introduction to handprinting techniques utilizing the letterpress with emphasis on the design and making of the handmade book.

393D Text and Image in Graphic Design (5)
Prereq: adm to major area School of Art. Concentration on text as it relates to graphic design imagery. This course will identify the individual's perception of typography as text and further enhance that level through customized exercises related to the individual's discipline.

395D Media (5)
Prereq: art major or perm. Time, motion, light, and sound as design and communication tools. Problems in design with film, slides, overhead projection, sound track, and videotape.

450 Senior Studio Thesis Project (3)
Prereq: sr only, art major. Preparation for senior presentation and portfolio (not a studio course).

451 Graphic Design: Senior Studio (5)
Prereq: sr graphic design major and perm. 2- and 3-dimensional graphic design with emphasis on professional and creative solutions. Problems in research and production.

452 Graphic Design: Senior Studio (5)
Prereq: 451 or perm. Design problems carried through all professional stages. Examination of design in context of various applications.

453 Graphic Design: Senior Studio (5)
Prereq: 452 or perm. Emphasis on individual problems and individual professional orientation. Portfolio preparation and presentation. Production of brochure and preparation of resume.

459 Graphic Design Topics (3)
Prereq: 451 or concurrent. Lecture/seminar course intended as a historical reference relating to the discipline. Theory and practice of the graphic design profession (not a studio course).

Painting Studio Courses

275A Basic Painting I (5)
Prereq: 112, 113, 116. Development of formal, technical, and conceptual attitudes in painting.

276A Basic Painting II (5)
Prereq: 275A. Problems in painting, investigating recent developments and formal concepts.

278 Watercolor and Expanded Media I (5)
Prereq: jr or sr; 116 or concurrent. Techniques of transparent watercolor.

279 Watercolor and Expanded Media II (5)
Prereq: 278. Continuation of 278.

375A Intermediate Painting I (5)
Prereq: 276A, acceptance into a major area in the School of Art. Development of personal goals and identification of issues with emphasis on individual, creative problems in painting. Not repeatable for credit.

376A Intermediate Painting II (5)
Prereq: 375A. Continuation of 375A. Not repeatable for credit.

377A Intermediate Painting III (5)
Prereq: 376A. Continuation of 376A. Not repeatable for credit.

378 Figure Painting (5)
Prereq: 118, 276A. Painting from model.

379 Painting Topics (3)
Prereq: major studio area School of Art. Preparation for senior presentation and portfolio.

475A Advanced Painting I (5)
Prereq: 377A. Advanced problems in painting.

476A Advanced Painting II (5)
Prereq: 475A. Continuation of 475A.

477A Advanced Painting III (5)
Prereq: 476A. Continuation of 476A.

Photography Studio Courses

281 Basic Photography (5)
Prereq: 112, 113, 116. Emphasizes conceptual approach to photography and advanced control of media. Intended for prospective majors in photography.

282 Intermediate Photography (5)
Prereq: 281. Thorough presentation of craftsmanship in photography with emphasis on aesthetics and techniques of photography.

283 Intermediate Photography (5)
Prereq: 282. Color printing from negative color materials.

380 Photography Topics (3)
Prereq: photography major, jr. Critical review of historical as well as current issues in photography (not a studio course).

381 Photographic Arts I (5)
Prereq: 283, successful portfolio review. Application of contemporary monochrome materials to selected range of problems within discipline.

382 Photographic Arts II (5)
Prereq: 283, successful portfolio review. Application of series and sequential imagery to expression in photography.

383A Photographic Arts III (5)
Prereq: 283, successful portfolio review. Experimental methods and materials (gum bichromate, magazine lifts, photo montage, quickproof, 3-color overlays, Kodalith, and multiple printing).

384 Photographic Arts IV (5)
Prereq: 283, successful portfolio review. Sensometric control of color printing processes, dye transfer, color separation, and masking.

481A Advanced Photographic Arts I (5)
Prereq: 383A. Individual problems and seminars.

482 Advanced Photographic Arts II (5)
Prereq: 481A. Individual problems and seminars.

483 Advanced Photographic Arts III (5)
Prereq: 482. Individual problems and seminars.

Printmaking Studio Courses

241 Lithography (5)
Prereq: 112, 113, 116. Introduction to basic lithographic drawing and printing. Emphasis on application of techniques to image making.

242 Etching (5)
Prereq: 112, 113, 116. Introduction to basic techniques of intaglio printmaking, including etching, dry-point, aquatint, and color printing. Emphasis on application of techniques to image making.

247 Relief Printing (5)
Prereq: 112, 113, 116. Basic techniques of relief printing from wood, metal, and assembled plates in both black and white and color. Emphasis on application of techniques to image making.

248 Serigraphy (5)
Prereq: 112, 113, 116. Basic techniques of screen printing including hand-cut stencils, photographic stencils, and multicolor printing. Emphasis on application of techniques to image making.

341 Prints (5)
Prereq: 10 hrs of 200-level printmaking courses; acceptance into a major area in the School of Art. Supervised studio experience in printmaking media of student's choice (intaglio, lithography, relief, and/or serigraphy); includes demonstrations and lectures on related topics. Emphasis on development of techniques and concepts of printmaking.

342 Prints (5)
Prereq: 341. Continuation of 341.

343 Prints (5)
Prereq: 342. Continuation of 341-342.

346 Art on Computers (4)
Prereq: jr. Introduction of the Macintosh computer, providing experience in the computer's capability to design and to generate visual art images.

347 Print Topics (3, max 6)
Prereq: perm. In-depth view of historical and contemporary issues of the field of printmaking.

441 Prints (5)
Prereq: 343. Emphasis on personal and professional development in printmaking.

422A Print Workshop (5, max 10)
Prereq: 441. Emphasizes the studio development of the individual student and the student's preparation of a professional portfolio.

Sculpture Studio Courses

231A Sculpture I (5)
Prereq: 112, 113, 116. Exploration of traditional and contemporary concepts of sculpture through lectures, projects, and critical discussions.

231B Sculpture II (5)
Prereq: 112, 113, 116. The second course for prospective sculpture majors with emphasis on basic sculpture skills.

232E Sculpture: Figure (5)
Prereq: 112, 113, 116. Introduction to sculpture, based upon human figure; includes slide presentations; expression through form and gesture emphasized.

233E Sculpture: Modeling (5)
Prereq: 112, 113, 116. Emphasizes modeling techniques reflecting the expansion of processes and materials in the discipline.

234E Sculpture: Casting (5)
Prereq: 112, 113, 116. Introduction to techniques of sculpture in metal including casting and welding processes and historical and aesthetic development.

235E Sculpture: Reductive (5)
Prereq: 112, 113, 116. Basic approaches to carving techniques in various materials.

331A Sculpture III (5)
Prereq: 231B; acceptance into a major area in the School of Art. Designed for development of the sculptural idea as a major. Not repeatable for credit.

331B Sculpture IV (5)
Prereq: 331A. Emphasis on the nontraditional aspects of sculpture making and individual development. Not repeatable for credit.

331C Sculpture V (5)
Prereq: 331B. Emphasis on aesthetic development; projects based on individual student interest. Not repeatable for credit.

431A Sculpture VI (5)
Prereq: 331C. For sculpture majors, focusing on contemporary issues in sculpture. Not repeatable for credit.

431B Sculpture Workshop (5, max 10)
Prereq: 431A. Emphasizes each student's development as an artist.

General Studio Courses

Drawing Sequence (drawing is not a major)

218 Figure Drawing I (5)

Prereq: 118. (not offered every quarter) Drawing from model. Proportion, structure, and form. Various media.

311 Drawing Media (4)

Prereq: 218. An exploration of traditional and nontraditional techniques and media.

318 Figure Drawing II (5)

Prereq: 218. (not offered every quarter) Approach to personal imagery in drawing. Individual response to traditional and modern drawing attitudes.

319 Intermediate Drawing (5)

Prereq: 318. (not offered every qtr) Continuation of 318.

418A Advanced Drawing (5)

Prereq: 319. (not offered every qtr) Continuation of 319.

Additional Art Courses

300J Criticism in the Visual Arts (4) (1J)

Prereq: AH 211, 212, 213 or perm. Tier I composition class designed to encourage understanding of historical perspectives in critical writings on visual arts. Students will read and examine written criticism; develop research, grammar, and editing skills; and write analytical descriptive essays on appropriate visual arts subjects.

490A Seminar in the Visual Arts (3)

Prereq: sr and perm. Interdisciplinary course designed to deal with professional issues beyond those pertinent to specific media, to enrich experience in various areas and professional levels, and to permit exchange of information on current issues in art world. Not repeatable for credit.

491A Art in Your Life (3)

Prereq: 393A. Nontraditional course designed to provide an alternative approach to the thinking and making of art.

496A Studio Practicum (3)

Prereq: sr art major. Preparation for senior presentation and portfolio. Requirement for all studio majors.

497 Independent Study—Projects (1–5, max 5)

Prereq: art major, sr, and perm. Projects, ideas, or explorations that cannot reasonably be made within regular course structures. Requires permission of faculty member prior to registration. Credit as non-studio elective only.

498 Independent Study—Readings (1–5, max 5)

Prereq: art major, sr, and perm. Reading and research to studio investigations. Intended for work that is not a reasonable part of regular studio courses. Credit as elective only.

Regional Campus Offerings

115A Introduction to Painting (4)

Enrollment at regional campus only. Credit as free elective only, not studio.

125 Introduction to Ceramics (4)

Enrollment at regional campus only. Credit as free elective only, not studio.

141 Introduction to Printmaking (4)

Enrollment at regional campus only. Credit as free elective only, not studio.

151 Introduction to Graphic Design (4)

Enrollment at regional campus only. Credit as free elective only, not studio.

Art History (AH)

211 History of Art (4) (2H)

Survey of Western painting, sculpture, and architecture from prehistoric to early Christian. Students advised but not required to enroll in 211, 212, and 213 in sequence. No credit to those with credit for CA 211.

212 History of Art (4) (2H)

Continuation of 211 from early Christian period of Europe through Renaissance. Students advised but not required to enroll in 211, 212, and 213 in sequence. No credit to those with credit for CA 212.

213 History of Art (4) (2H)

Continuation of 212 from Baroque to present. Students advised but not required to enroll in 211, 212, and 213 in sequence. No credit to those with credit for CA 213.

237 Photo History Survey (4)

Prereq: jr or sr. Historical development of photography from its inception to present including comprehensive study of artistic and technical development of major photography movements.

320 Greek Art (4)

Prereq: jr or perm. Art of ancient Greece.

321 Roman Art (4)

Prereq: jr or perm. Art of ancient Rome

322 Medieval Art (4)

Prereq: jr or perm. Art of Europe from age of Constantine to art of Giotto.

323 Italian Renaissance Art (4)

Prereq: jr or perm. Art of 15th century Italy.

324 Northern Renaissance Art (4)

Prereq: jr or perm. Art of Northern Europe in 15th and 16th centuries.

326 Baroque and Rococo Art (4)

Prereq: jr or perm. Art of 17th and 18th century Europe.

327 Art of the 19th Century (4)

Prereq: jr or perm. European painting and sculpture from French Revolution through Symbolism.

329 The Arts of the United States (4)

Prereq: jr or perm. Art in U.S. from Colonial period to 1865.

330 The Arts of the Orient (4) (2C)

Prereq: jr or perm. Art of India, China, and Japan.

331 Pre-Columbian Art (4) (2C)

Prereq: jr or perm. Preconquest art of Mexico, Central and South America.

332 West African Art (4)

Prereq: jr or perm. The visual art traditions, including sculpture, ceramics, textiles, and architecture, of the forest and savanna zones of West Africa.

334 Ancient Near Eastern Art (4)

Prereq: jr or perm. Motifs and monuments of Egypt, Mesopotamia, Assyria, and Babylonia.

336 Modernist Theory and Criticism (4)

Prereq: 211, 212, 213. An overview of the major theoretical and critical positions on the visual arts in modernism, especially from the late 19th century to the later 1970s. Topics include formalism, expressionism, and the relationship of art to nature and society.

350 Principles of Architecture (4)

Introduction to styles, theories, and structural principles of architecture.

351 Ancient Architecture (4)

Prereq: soph and above. Survey of architectural monuments and their historical settings in Near East, Egypt, Greece, and Rome.

352 Medieval Architecture (4)

Prereq: soph and above. Survey of architectural monuments and their historical setting in early Christian, Byzantine, Romanesque, and Gothic periods.

353 Renaissance and Baroque Architecture (4)

Prereq: soph and above. Survey of architects and monuments from 15th through 18th century.

354 19th and 20th Century Architecture (4)

Prereq: soph and above. Survey of architects and monuments from historical revival styles through recent stylistic trends.

360 Seminar in Art Historiography (4)

Prereq: perm. Investigation of various methodological approaches to study of art.

425 Art of High Renaissance and Mannerism (4)

Prereq: jr. Art of 16th century Italy.

428 Modern Art (4)

Prereq: jr. Art of Europe from 1880 to 1945.

433 Central African Art (4)

Prereq: jr. The visual art traditions, including sculpture, ceramics, textiles, and architecture, of the forest and savanna zones of Central Africa.

435 Art Since 1945 (4)

Prereq: jr. Selected studies in visual arts covering developments after 1945, such as Abstract Expressionism, Minimalism, Pop, Post-Modernism, performance, video, electrostatics, etc., to the present. This is a lecture course.

438 Contemporary Art Theory and Criticism (4)

Prereq: 211, 212, 213. An overview of the major theoretical and critical positions on the visual arts and contemporary culture. Topics include semiotics, poststructuralism, feminism, simulation, and theories of cultural and ethnic difference.

440 Selected Topics in Art History (4)

Prereq: jr. Selected problems in the visual arts, such as interdisciplinary topics, cross-cultural studies, thematic treatments, technical investigations, and approaches to material. Content will vary with each offering of this course. Topic for course will be published during the quarter previous to being offered.

497 Independent Study—Projects (1–6)

Prereq: major, sr, and perm. Projects, ideas, or explorations that cannot reasonably be made within regular course structures. Credit as elective only.

498 Independent Study—Readings (1–6)

Prereq: major, sr, and perm. Reading and research in art history that cannot reasonably be made within regular course structures. Credit as elective only.

Astronomy

See Physics and Astronomy.

Aviation (AVN)

Contact the Aviation Department for a current list of course fees and detailed course descriptions. Due to FAA rules changes, all flight courses may vary from these descriptions.

100 Introduction to Aviation (4)

Survey of civil aviation. Overview of aviation history, general aviation, types of air carrier aircraft, and the importance of the air transportation industry. Develops understanding of an airline flight from takeoff to landing.

110 Basic Aeronautics (4)

(fall, winter, spring) 40 hrs ground instruction covering radio navigation, meteorology, FAA regulations, communications, aircraft construction, and performance data to meet requirements of private pilot's written exam. 2 lec.

240 Private Pilot Flight Course (4)

Prereq: FAA written passed or perm. Meets requirements for private pilot's certificate. 1 lec, 3 lab. **Course fee.**

240A Introduction to Flight (2)

Prereq: 110 and perm. Dual and solo flight instruction in fundamentals of flight. **Course fee.**

240B Introduction to Flight II (1)

Prereq: 240A and perm. Dual and solo flight instruction. Introduction to cross-country navigation and use of radio aids to navigation. **Course fee.**

240C Introduction to Flight III (1)

Prereq: 240B and perm. Dual and solo flight instruction in cross-country navigation by pilotage, dead reckoning, and use of VOR, NDB, and HSI. Flight test preparation for private pilot certification included. **Course fee.**

300 Aviation Laws and Regulations (4)
(winter only) Student obtains knowledge, background, and understanding of aviation laws and regulations. Emphasis will be placed upon areas of legal concepts of operation, contracts, insurance and liability, regulatory statutes, and case law. In addition, various regulations of FAA, DOT, NTSB, and ICAO will be covered. 2 lec.

305 Aviation Weather (4)

Prereq: 110. Identification of aviation weather hazards that affect pilots, dispatchers, and airport and airline management; familiarization with aviation weather products and providers; application of weather interpretation to flight scenarios.

310 Advanced Aeronautics (4)

Prereq: 110. (winter only) 40 hrs ground instruction covering advanced aerodynamics, radio navigation, FAA regulations, aircraft construction and performance, theories of flight, weight and balance, and instruments to meet requirements of commercial written exam. 2 lec.

315 Aviation Safety (4)

Prereq: 110. Overview of aviation safety from management and pilot perspectives, including fundamental aviation safety concepts, risk theory and management, safety terms, prevention methodology, effective safety program organization, human factors, inspection programs, data and analytical information systems, and regulatory requirements.

320 Advanced Aircraft Systems (4)

Prereq: 310 or Comm. Pilot Cert.. (winter only) In-depth study of simple and complex aircraft fuel, electrical, hydraulic, and environmental systems. 2 lec.

340 Commercial Flight Course, Part I (4)

Prereq: private pilot's certificate. Flight training consisting of cross-country flights and commercial maneuvers. 3 lab. **Course fee.**

350 Instrument System Regulations and Procedures (4)

Prereq: 110. (fall, spring) 40 hrs of ground instruction covering various navigation systems and procedures, aircraft radios and communications, instrument flying, and air traffic control procedures. Includes functions of ATC centers, approach control, towers, and flight service stations. FAA regulations included. Meets all requirements for instrument pilot written exam. 2 lec.

360 The National Airspace System (4)

(winter only) Covers topics such as procedures used to separate aircraft, flow control, ATC phraseology, and navigation in the national airspace system.

390 Airline Operations and Management (4)

(fall) To give a broad understanding of the air transportation industry and the major management functions with an airline. Topics cover economics of airlines; managerial aspects; international aviation; career planning; and general aviation.

400 Commercial Flight Course, Part III (4)

Prereq: FAA written passed or perm. Instruction in flight by sole reference to instruments. Preparation for instrument rating. 3 lab. **Course fee.**

405 Advanced Cross Countries (4)

Prereq: 400. 46 hours of flight instruction consists of dual and solo cross-countries and review of commercial maneuvers plus 8 hours of FTD. **Course fee.**

410 Fundamentals of Aviation for Teachers (4)

Prereq: 110 or perm. Comprehensive course covering aeronautical knowledge required of private pilot: navigation, weather, federal regulations, theory of flight, aircraft performance, radio communications and navigation, and fundamentals of instruction for teachers of aviation ground instruction courses.

415 Instrument Simulator Proficiency Course (2)

Prereq: Instrument Rating. Provides comprehensive review of instrument procedures, publications, regulations, weather analysis, aircraft performance, planning, and emergency procedures for instrument-related pilot who wishes to regain instrument proficiency. 10 lessons require minimum of 15 hrs ground instruction review and 20 hrs simulator practice. **Course fee.**

420 Commercial Flight Course Part IV (4)

Prereq: FAA written passed and 400. Flight instruction including 10 hrs in complex airplane. Preparation for single commercial certification. 3 lab. **Course fee.**

430 Multi-Engine Flight Course (2)

Prereq: pilot's certificate and perm. 10 hrs of procedures with both engines operative, with 1 engine inoperative (feathered), single engine speeds, effects of airplane configuration on engine-out performance. Enroute operations, single engine approaches and landings. 2 lab. **Course fee.**

435 Flight Engineer (4)

Prereq: Commercial Certificate Multi-Engine Instrument. Comprehensive course covering aeronautical knowledge acquired for the flight engineer rating, including federal aviation regulation, aerodynamics, meteorology, aircraft manuals, and aircraft systems.

440 Flight Instructor Ground Instruction (4)

Prereq: commercial pilot's certificate or perm. 40 hrs ground instruction on FAA regulations and publications, weather, advanced flight computer operations, radio navigation, advanced aircraft and engine performance, and fundamentals of instructing. Covers requirements for flight instructor written exams. 2 lec.

445 Flight Instructor Course (4)

Prereq: FAA written passed, commercial pilot's certificate, perm. Review of commercial course with emphasis on how to instruct and analysis of maneuvers. 1 lec, 3 lab. **Course fee.**

450 Instrument Instructor Ground Instruction (3)

Prereq: commercial pilot's certificate. 30 hrs review of instrument course with emphasis on how to instruct instrument flying. Covers requirements for instrument written exam. 2 lec.

455 Instrument Instructor Flight Course (4)

Prereq: FAA written passed, commercial pilot's certificate, and 445. Review of instrument course with emphasis on how to instruct on instruments. 1 lec, 3 lab. **Course fee.**

460 ATP Ground Instruction (4)

Prereq: FAR 61.153. Forty hours advanced course placing major emphasis on specific requirements and duties of airline transport pilots in accordance with Federal Aviation Regulations. Provides aeronautical requirements for airline transport pilot written exam. 2 lec.

465 Flight Instructor Operations—Multi-Engine (2)

Prereq: flight instructor certificate with multi-engine rating and perm. Flight instruction in multi-engine operations and instructional practices, analysis of maneuvers, and practice teaching of multi-engine procedures; plus 1 hr lec/disc per wk. **Course fee.**

470 ATP Multi-Engine Flight Course (2)

Prereq: FAA commercial pilot's certificate with multi-engine and instrument ratings, FAA ATP written passed, and perm. Comprehensive course covering aircraft systems, weight and balance, FARS, and multi-engine aerodynamics. Flight including proficiency maneuvers and instrument procedures. **Course fee.**

475 Internship in Aviation Operations (1-15)

Prereq: written perm of dept. chair. Internship program in selected fields of aviation under direction of faculty member.

480 General Aviation Operations and Management (4)

Prereq: MGT 200 or MGT 300. A comprehensive study of general aviation. Provides overview of general aviation history and scope, general aviation marketing, FBO operations and management, and an in-depth study of corporate and business aviation.

489 Transition to Aviation Industry (2)

Prereq: AVN major; sr or perm. Discussions and exercises to improve communication and networking skills while increasing knowledge of student's area of focus in the aviation industry. Topics include resume writing, interviewing, goal setting, report writing, presentation skills, public relations, and professional responsibilities.

Bacteriology

See Biological Sciences: Microbiology.

Behavior

See Biological Sciences or Psychology.

Biological Sciences
Biological Sciences (BIOS)**100 The Animal Kingdom (4) (2N)**

M. Nossek. Designed for nonscience majors. A broad survey of all of the major groups of animals. Aspects of the biology, reproduction, ecology, and evolution of the animal phyla. Credit not allowed for both 100 and 173.

103 Human Biology (5) (2N)

Staff. Designed for nonscience majors. Humans as living organisms: our origins, ecology, and inheritance; and functioning of our body systems. 5 lec.

109 Readings in Biology (2) (2N)

Prereq: concurrent enrollment in BIOS 170, 171, or 172. Small-group study and discussion of topics only peripherally covered in the BIOS 170 series. Taken concurrently with introductory biology, it provides an informal forum to read about, discuss, and present topics that go beyond the textbook.

130 Principles of Human Anatomy and Physiology I (5) (2N)

(Chillicothe, Lancaster, and Zanesville campus only) Introduction to the structure and function of the human body in the study of cells, tissues, and the integumentary, skeletal, and muscular systems. Cat used for dissection. 3 lec, 4 lab.

131 Principles of Human Anatomy and Physiology II (5) (2N)

Prereq: 130. (Chillicothe, Lancaster, and Zanesville campus only) Introduction to the structure and function of the human body in the study of the digestive, urinary, reproductive, cardiovascular, lymphatic, respiratory, endocrine, and nervous systems. Cat used for dissection. 3 lec, 4 lab.

170 Introduction to Zoology (5)

Prereq: fr: h.s. chem. and ACT 23 or SAT 1060; nonfr: CHEM 152 or 122. *Staff*. Cellular and molecular biology. Designed for science majors and preprofessional students. Introduction to the chemistry of life, cell structure and function, and the principles of inheritance. Laboratories enhance lecture coverage of major topics with emphasis on experimental design and critical analysis. Credit not allowed for both 170 and any of the following: BIOL 101, BIOS 101, BOT 110, PBIO 101, PBIO 110, ZOOL 150, ZOOL 170. 4 lec, 3 lab.

171 Introduction to Zoology (5) (2N)

Prereq: C- or better in 170 or PBIO 110. *Staff*. Animal organ systems. Designed for science majors and preprofessional students. Introduction to multicellular life, organ systems, physiology, and animal development. Laboratories enhance lecture coverage of major topics with dissections and experiments; emphasis is on comparative strategies within the animal kingdom. 4 lec, 3 lab.

172 Introduction to Zoology (3) (2N)

Prereq: 171, C or better. *M. Morris, W. Roosenburg*. Evolutionary biology. Designed for science majors and preprofessional students. Introduction to the principles of evolution, ecology, and behavior. 3 lec.

173 Introduction to Zoology (1) (2N)

Prereq: 171, C or better. *M. Nossek*. Laboratory survey of the major phyla of the animal kingdom to reveal evolutionary relationships and structural and functional characteristics. Credit not allowed for both 100 and 173. 2 lab.

202 Sex Differences and the Brain (4) (2N)

Staff. Genetic, hormonal, and environmental influences that affect the development of brain structure and function in male and female humans. Data will be taken up in lecture, discussion, and group report formats.

217 Women in Science (4)

Prereq: ENG 151, 152, or 153. *G. Mapes*. The lives and discoveries of women scientists worldwide from 1800 to the present are examined through biographies, films, speakers, personal interviews, lectures, writing, and discussion. Historical and current trends, including traditional and feminist methodologies, are considered for the sciences, science education, and society. No credit for majors; does not satisfy Arts and Sciences area distribution requirements. Also listed as PBIO 217.

220 Conservation and Biodiversity (4) (2A)

Credit not allowed for both 220 and 481. *M. White*. Designed for nonscience majors. Introduces the student to the modern field of conservation biology and the role of genetics, ecology, life history, and biogeography in the preservation and maintenance of biodiversity. Case studies of endangered animal and plant species will be highlighted. 4 lec.

225 Genetics in Human Society (3) (2N)

Prereq: h.s. or college biology (for nondepartmental majors; no credit for those who have credit for 325). *M. White*. Basic principles of inheritance in humans. Normal and abnormal chromosome constitutions, gene-protein interrelationships, and factors that cause mutations of genes and chromosomes. Significance of genetics in life of human society. 3 lec.

275 Animal Ecology (4)

Prereq: 1 college-level course in BIOS or PBIO. *S. Reilly, W. Roosenburg*. Study of the natural environment and relations of organisms to each other and their surroundings. Individual, population, and community dynamics in terrestrial and aquatic ecosystems are considered in natural and human influenced environments. 4 lec.

297T Zoology Tutorial (1-15)

Prereq: perm. *M. Chamberlin*. Special courses offered to students in Honors Tutorial program.

298T Zoology Tutorial (1-15)

Prereq: perm. *M. Chamberlin*. Continuation of 297T. See 297T for description.

299T Zoology Tutorial (1-15)

Prereq: perm. *M. Chamberlin*. Continuation of 297T-298T. See 297T for description.

300 Anatomy and Histology (6)

Prereq: 171, C or better, or perm; not open to fr; may be taken concurrently with 345. *R. Hikida*. Gross and microscopic structure of the basic tissues and organ systems of the human body. Cat used for dissection. Human systems also used. 4 lec, 4 lab.

301 Human Anatomy (6)

Prereq: majors only, C in 172 and 173; not open to fr; no credit if 302 taken. *F. Hagerman, R. Heinrich*. Structure of body systems with particular emphasis on human musculoskeletal system. Cat used for dissection. 3 lec, 6 lab.

302 Human Anatomy for Nonmajors (6)

Prereq: 103 or 171 or BIOL 101; not open to fr. *F. Hagerman, R. Heinrich*. Structure of body systems, with particular emphasis on human musculoskeletal systems. Cat used for dissection. 3 lec, 6 lab. No credit for BIOS majors; no credit if 301 taken.

303 Comparative Vertebrate Anatomy (6)

Prereq: 172, 173, C or better, not open to fr. *R. Carr, S. Reilly*. Comparative study of the anatomy of vertebrates. Structure, function, and evolution of the vertebrate body forms and organ systems are compared. Extensive lab work covers each of the major classes of vertebrates. 3 lec, 6 lab.

311 Computer Simulation in Biology (4)

Prereq: MATH 163B or MATH 263B. *W. Holmes*. Introduction to computer modeling and simulation in biological research. Designed to illustrate the power and limitations of computer simulation by having students code (in BASIC) simulation programs for a number of different biological phenomena. Quantitative models used include models of enzyme kinetics, population biology, population genetics, diffusion models, and compartmental models in physiology. 3 lec, 2 lab.

316 Biogeography (4)

Prereq: BIOS 173 or GEOG 101, no credit if GEOG 316 taken. An examination of historical, environmental, and biotic influences that shape spatial patterns of plant and animal distributions and community structure in the contemporary landscape. (Cross listed with GEOG 316)

320 Fundamentals of Animal Cell Biology (4)

Prereq: C or better 172, 173. *A. Brown*. Comprehensive introduction to the structure and function of animal cells, emphasizing fundamental principles and concepts of modern cell biology and the dynamic nature of cells and their components.

325 General Genetics (5)

Prereq: 172, 173, C or better, or PBIO 111 (formerly BOT 111). *M. White*. Principles and concepts of genetics as revealed by classical and modern investigation. 5 lec.

326 Laboratory Genetics (4)

Prereq: C or better in 325, 463 or equiv. *M. White, D. Holzschu*. Experiments in basic molecular genetics, including nucleic acid purification and analysis. In vitro recombinant DNA techniques designed to familiarize the student with current laboratory procedures in molecular genetics. 8 lab.

333 Neural Basis of Behavior (3)

Prereq: C or better BIOS 172, 173. *S. Hooper, R. DiCaprio*. Overview of how animal nervous systems generate behavior. The first half introduces brain and neuronal physiology and anatomy, sensory and motor systems, sensory-motor integration, and motivational states. The second half uses exemplar neuroethological case studies to integrate this information.

342 Principles of Physiology I (3)

Prereq: PHYS 202, CHEM 153; 171, C or better. *Staff*. Function of animal cells and organs emphasizing the physical and chemical principles underlying physiological processes. Focus on membrane properties of excitable and nonexcitable cells, chemical messengers and regulators, fluid balance, and nutrient balance. 3 lec.

343 Principles of Physiology II (3)

Prereq: C or better in 342. *Staff*. Physiological processes underlying locomotion, sensation, behavior, circulation, gas exchange, and temperature relations. 3 lec.

345 Human Physiology (4)

Prereq: 300 or 301 or 302 or concurrent; not open to fr. *R. Gilders, C. Schwirian, D. Kurijaka*. Functions of various systems as applied to humans. Special reference to physiological adaptations to environment and regulatory functions. For education, clinical laboratory science, exercise physiology, health and sports sciences, dietetics, and prephysical therapy students only.

346 Human Physiology Laboratory (3)

Prereq: anatomy; 345 or concurrent. *Staff*. Lab experiences designed to complement material covered in 345. For pre-physical therapy students; others by perm only. 6 lab.

352 Biomechanics (4)

Prereq: 301 or 302. *S. Bullard*. Analysis of human motion based on anatomical and mechanical principles. 4 lec. Credit not allowed for both 352 and PESS 302.

354 Principles of Physiology Lab I (2)

Prereq: major, C or better in 342 or concurrent. *M. Chamberlin*. Laboratory exercises designed to illustrate the experimental basis of principles covered in 342. 4 lab.

355 Principles of Physiology Lab II (2)

Prereq: C or better in 343 or concurrent, 354. *M. Chamberlin*. Laboratory exercises designed to illustrate the experimental basis of principles covered in 343. 4 lab.

364 Forensic Biology (4)

Prereq: C or better in BIOS 171 and CHEM 351; forensic chemistry major. *Staff*. Provides experience in microscopic techniques; identification of hair and fibers; identification and grouping of blood including chemical, immunological, and electrophoretic methods; DNA fingerprinting; and identification of semen. 2 lec, 4 lab.

376 Field Ecology (4)

Prereq: BIOS major, C or better in 172 and 173. *G. Svendsen*. Analysis of field problems in ecology; consisting of design of field experiments and hypothesis testing, techniques to gather and analyze field data, interpretation of results, and report writing. 1 lec, 6 lab.

384 Bioethics: Bioethical Problems in Biology and Medicine (5)

Prereq: 9 hrs BIOS or MICR or PBIO. (Lancaster campus only) Ethical problems arising from rapid advances in biological and biomedical research. Topics include: human experimentation, fetal research, informed consent, death with dignity, euthanasia, reproductive advances, sex control, test tube babies, surrogate mothers, public policy and bioethics, health care delivery, mental health, and genetic screening. 5 lec.

390H Biology and the Future of Man (5)

Prereq: perm. (Lancaster campus only) Course covers human sexuality, physiological effects of environmental pollutants, drugs of abuse, and introduction to advances in biological technology that influence future of humans. 5 lec.

392 Topics in Zoology for Nonmajors (1-3, max 8)

Prereq: BIOS 170 or BIOL 101 or PBIO 110, perm of specific instructor. Individual or small-group study, under supervision of instructor, of topics not otherwise available to undergrad students. Credit not applicable toward major and minor in biological sciences or microbiology. Special registration with departmental secretary absolutely required.

392A Clinical Laboratory Observation (1)

Prereq: clinical laboratory science major. *E. Rowland*. Gives student opportunity to observe activities characteristic of clinical lab. Observations made in hospital setting so that, along with other background information provided, student may be better able to evaluate lab work as career choice.

397T Zoology Tutorial (1-15)

Prereq: perm. *M. Chamberlin*. Special courses offered to students in Honors Tutorial program.

398T Zoology Tutorial (1-15)

Prereq: perm. *M. Chamberlin*. Continuation of 397T. See 397T for description.

399T Zoology Tutorial (1-15)

Prereq: perm. *M. Chamberlin*. Continuation of 397T-398T. See 397T for description.

401 Advanced Human Anatomy (6)

Prereq: C or better in 301 or 303 or perm. *Staff*. In-depth morphological study of body systems in the human using lecture material, prosected cadaver specimens, X-rays, and models. 4 lec, 4 lab. No audit, no pass/fail.

402 Human Neuroscience (4)

Prereq: C or better in 301 (or 303) and 345 (or 342); or perm. *R. DiCaprio, E. Peterson, M. Rowe*. Study of human brain, emphasizing anatomy with functional and clinical considerations. Students will do a complete brain dissection. Students will be assessed by means of a lab practical and two written exams. 3 lec, 2 lab.

403 Teaching Vertebrate Anatomy (3-4)

Prereq: perm. *Staff*. Students receive advanced training in vertebrate anatomy via lectures and dissections and give presentations while assisting in teaching vertebrate anatomy courses. 1 lec, 6-B lab.

405 Quantitative Comparative Biology (6)

Prereq: 275, 303, 325; MATH 263A, B; PSY 121. *S. Reilly*. Students study and use quantitative methods and analytical techniques used in comparative biology focusing on the use of kinematic, electromyographical, isozyme, force, and metabolic data. Collection, analysis, and presentation of data used in testing ecological or evolutionary hypotheses are emphasized.

406 Vertebrate Embryology (6)

Prereq: C or better in 300, 301, or 303. *L. Ross*. Development from gametogenesis to organogenesis in representative vertebrate types. Lab emphasis given to early chick and pig development. 4 lec, 4 lab.

407 Developmental Biology (4)

Prereq: perm. *Staff*. Mechanisms of animal development at tissue, cellular, and molecular levels of organization, with emphasis on experimental approaches. 4 lec.

408 Histology (6)

Prereq: C or better in 301 or 303. *A. Brown*. Cells, tissues, and organ systems with regard to their morphological and physiological properties. 4 lec, 4 lab.

409 Neuronal Systems (4)

Prereq: C or better in 343 or 412 or perm. *E. Peterson, M. Rowe*. Introduction to neurobiology, beginning with in-depth consideration of anatomy and physiology of neurons, and using these concepts to develop understanding of vertebrate sensory systems: vision, audition, somesthesia, lateral line sense, chemical senses, infrared and magnetic field detection, electroreception. Emphasizes physical, ecological factors that influence design of sensory systems. 4 lec.

410 Advanced Neuronal Systems (4)

Prereq: C or better in 409 or perm. *E. Peterson, M. Rowe*. Builds on Neurobiology I to develop understanding of movement control and sensory-motor integration from molecular to behavioral levels. Learning, emotion, social behavior. 4 lec.

411 Methods in Computational Neuroscience (4)

Prereq: 412 or perm; MATH 263B. *W. Holmes*. Lecture, discussion, and computer lab. Introduction to mathematical and computational techniques for modeling single neurons and networks of neurons. Cable theory; Rall's model; compartmental models; introduction to available software for simulating neurons and networks of neurons; modeling of action potentials, Hodgkin-Huxley equations, synaptic conductances, and voltage-dependent conductances; Hebbian synapses; synaptic modification rules; quantal analysis; neural networks. Students are expected to complete a simulation project using one of the available software packages. 4 lec, lab arr.

412 Molecular and Cellular Neurobiology (4)

Prereq: C or better in 342 or 345; MATH 163B or 263B. *R. Colvin*. Intended for students interested in neuroscience. Introduction to the molecular and cellular basis of the functioning of the nervous system. Topics to be covered include morphology, excitable properties of neurons, mathematical modeling, synaptic function, cell biology, and neuronal development. 4 lec.

420 Comparative Vertebrate Biomechanics (4)

Prereq: C or better in 303, PHYS 201 or perm. *A. Biknevicius*. Introductory course that describes basic mechanical, behavioral, and ecological aspects of animal locomotion. Some anatomy and physics background required.

425 Evolutionary Genetics (4)

Prereq: C or better in 325, PSY 221 or equiv. *M. White*. Basic concepts of population genetics (mutation, gene flow, natural selection, genetic drift). Rates, patterns, and processes of molecular evolution at the population and species level. 4 lec.

427 Mechanisms of Gene Regulation (3)

Prereq: CHEM 490 or PBIO 450. *B. Biegelke*. A discussion of the molecular events that regulate gene expression to result in appropriate development and differentiation.

428 Human and Medical Genetics (4)

Prereq: BIOS 325 or MICR 325 or perm.. Basic principles of Mendelian, molecular, and population genetics as applied to gene expression in the development, metabolism, and diseases of humans. The role of genetics in medicine and counseling will be explored. 4 lec.

429 Marine Biology (5)

Prereq: C or better in 172 and 173 or perm; 430 recommended. *M. Dybdahl*. Biological processes in marine and estuarine habitats, and adaptations for life at sea; emphasis on environmental variables affecting distribution, abundance, and dynamics of marine plants and animals. Includes five-day field trip to temperate marine environment late in quarter; estimated cost \$80 per student; limited to 20 students. 5 lec, field trip.

430 Invertebrate Biology (6)

Prereq: C or better in 173 or perm. *M. Dybdahl*. The major taxa of marine and freshwater invertebrates: structure, function, development, evolutionary relationships, and ecological adaptations. 4 lec, 4 lab.

431 Limnology (5)

Prereq: C or better in 172 and 173, PBIO 111, CHEM 153, or equiv, or perm. *M. Dybdahl*. Physical, chemical, and biological processes in lakes (analogous to those of oceanography), with emphasis on the analysis of data; distribution, abundance, and dynamics of plant and animal populations, structure, organization, and productivity of communities; lab covers both standing and running freshwater habitats, with emphasis on acid mine pollution. 4 lec, 3 lab.

434 Biology of Spiders (4)

Prereq: 172, PBIO 111, or perm. *J. Rovner*. Morphology, physiology, behavior, ecology, and classification of spiders. Lab emphasizes taxonomic studies. 3 lec, 2 lab.

435 Entomology (6)

Prereq: C or better in 172, 173 or PBIO 111 or perm. *K. Johnson, W. Romoser*. Overview of insect biology. Lecture: insect morphology, physiology, behavior, systematics, evolution, and ecology. Lab: emphasis on insect collection and identification. 4 lec, 4 lab.

441A,B Parasitology (6)

Prereq: 172, 173. *E. Rowland*. Etiology of human parasites, their transmission, diagnosis, and prevention. 3 lec, 6 lab.

444 Tropical Disease Biology (4)

Prereq: jr. Team-taught lecture and seminar course provides an overview of the nature, impact, and management of tropical diseases and takes a holistic approach in the examination of tropical diseases as systems.

445 Physiology of Exercise (5)

Prereq: C or better in 345; 446 concurrent. For prephysical therapy, exercise physiology, and athletic training students only. *F. Hagerman, D. Kurjiaka, R. Gilders*. Fundamental concepts and application or organ systems' responses to exercise: special reference to skeletal muscle metabolism, energy expenditure, cardiorespiratory regulation, and training and environmental adaptations. 4 lec. (Same as PESS 414.)

446 Physiology of Exercise Laboratory (3)
Prereq: 345; 445 concurrent. For prephysical therapy, exercise physiology, and athletic training students only. *Staff*. Lab experiences designed to complement 445. 6 lab. (Same as PESS 415.)

450 Principles of Endocrinology (4)
Prereq: C or better in 342. A. Loucks. Endocrine control of mammalian homeostasis and metabolism. 4 lec.

452 Reproductive Physiology (3)
Prereq: C or better in 343, 450 recommended, perm. Reproductive physiology, development, maturation, reproductive cycles, gametogenesis, fertilization, implantation, pregnancy, lactation, and environment and behavior. Emphasis on mammals.

457 Animal Systematics (4)
Prereq: C or better in 325, 477 or 478 or 479, MATH 163B or 263B. S. Moody. Principles and methods of systematic zoology. Numerical methods and hypothetico-deductive reasoning applied to study of organismic diversity (taxonomy) and geographic distribution (biogeography). Use of computer stressed. 3 lec, 2 hr disc. and computer work.

462 Animal Physiological Ecology (4)
Prereq: 343; 275 or PBIO 425; MATH 163B or 263B. L. Crockett, W. Roosenburg, K. Johnson. Examines how organismal physiology is affected by the physical environment. Comparative approaches explore the behavioral, physiological, and biochemical responses to environmental factors. Current topics and methods are addressed in selected readings and discussion. 4 lec.

463 Cell Chemistry (4)
Prereq: C or better in 171; CHEM 302, CHEM 123 for HEFN. L. Crockett, F. Horodyski, K. Johnson. Chemistry of carbohydrates, lipids, proteins, and nucleic acids. Principles of enzyme activity and kinetics; metabolic pathways and regulations. 4 lec.

464 Physiological Chemistry Lab (3)
Prereq: C or better in 342, 463 or concurrent. R. Colvin. Basic procedures in qualitative and quantitative analysis of biological compounds and reactions. 6 lab.

466 Neurophysiology (4)
Prereq: C or better in 343, MATH 163B or 263B, or perm. S. Hooper. Basic aspects of cellular neurobiology; overall introduction to neurophysiology using an evolutionary approach to study excitable cells, from simple to complex nervous systems. 4 lec and student seminars.

467 Neurophysiology Laboratory (2)
Prereq: 466 or concurrent. S. Hooper. Lab sessions using advanced techniques in neurophysiology to illustrate lecture topics in 466. Training in manufacture and use of intra- and extra-cellular electrodes. 4 lab.

468 Ichthyology (4)
J. Eastman. Lecture course emphasizing selected aspects of biology of major families of freshwater and marine fishes. Topics include morphology, physiology, taxonomy, evolution, ecology, behavior, and zoogeography. 4 lec.

470A,B,C,D Clinical Laboratory Science Internship
S2-week clinical internship includes theoretical and practical coursework in all phases of clinical lab science at accredited school of clinical laboratory science. Required for certification as a clinical laboratory scientist.

471 Ornithology (6)
Prereq: 20 hrs BIOS including 303 or 342. D. Miles. Bird biology, including discussions on anatomy, physiology, conservation biology, life histories, and role or ornithology in current ecological and evolutionary theory. 4 lec, 4 lab, and field.

472 Herpetology (5)
Prereq: 20 hrs BIOS including 303 or 342 or equiv; MATH 163B or 263B. S. Moody. Biology of amphibians and reptiles. Lectures emphasize anatomy, physiology, ecology, behavior, taxonomy, and geography. Labs and field trips emphasize species of Ohio and families of U.S.A. 3 lec, 4 lab, and field.

473 Animal Behavior (5)
Prereq: C or better in 172, 173, jr. M. Morris. Ecological, physiological, and developmental aspects of animal behavior, interpreted from the perspective of evolutionary biology. 5 lec.

474 Mammalogy (6)
Prereq: C or better in 172, 173. G. Svendsen. Mammals; their origin, evolution and adaptations, geographical distribution, ecology, and systematics. Emphasis on local fauna. 4 lec, 4 lab, and field.

475 Sociobiology (3)
Prereq: 479 or perm. G. Svendsen. Current understanding of how and why animal social behavior evolved, including spacing, mating, and parental behavior of solitary as well as social animals. Lectures, reading, and reports. 3 lec.

477 Population Ecology (4)
Prereq: 275, 376, PSY 221 or equiv, MATH 163B or 263B. D. Miles. Major theories and concepts in population and evolutionary ecology. Emphasis on theoretical, field, and experimental studies pertaining to growth and regulation of populations; population interactions, including predation and competition, distribution and abundance, and life history theory. 4 lec.

478 Community Ecology (4)
Prereq: 275, PSY 221, MATH 163B or 263B. D. Miles. This course will provide a theoretical and empirical examination of the description, structure, and organization of communities. Emphasis will be placed on mathematical models that describe the biotic processes that mold community structure. Further consideration of null models in ecology and historical effects will be included. 4 lec.

479 Evolution (4)
Prereq: C or better in 325. G. Svendsen. Current concepts of evolutionary processes: sources of variation, agents of change, natural selection and adaptation, speciation and macroevolution. 4 lec.

480 Biological Research Methods (2-4)
Prereq: perm.

481 Animal Conservation Biology (4)
Prereq: perm. M. White. The roles of population genetics, population and community ecology, biogeography, systematics, and paleobiology in the study of biodiversity, design of nature reserves, and the recovery of endangered species. Discussion of extinction as a process, the effects of human-induced habitat degradation on loss of species diversity, and the role of reserves in protection of animal species.

492 Topics in Zoology (1-6, max 8)
Prereq: 172, 173; 2.5 g.p.a. in BIOS courses; perm from specific professor. Individual or small-group study of specialized topics in zoology under supervision of instructor. Special registration with departmental secretary absolutely required. Graded cr only.

493 Undergraduate Research (1-3, max 12)
Prereq: 20 hrs and 3.0 g.p.a. in BIOS, perm from specific professor. Individualized and directed research. Students select topics or are directed into possible research areas. Special registration with departmental secretary absolutely required. Graded cr only.

494H Undergraduate Research (1-4, max 12)
Prereq: 30 hrs and 3.2 g.p.a. in BIOS, perm from specific professor. Individualized and directed research. Students select topics or are directed into possible research areas. Special registration with departmental secretary absolutely required.

495H Undergraduate Research (Thesis) (3-9, max 15)
Prereq: 494H, 40 hrs and 3.2 g.p.a. in sciences, sr. Independent departmental honors research under supervision of staff member. Student should enroll qtr he or she expects to complete thesis. Special registration with departmental secretary absolutely required.

497T Tutorial Senior Thesis (1-15)
Prereq: perm. M. Chamberlin. Special courses offered to students in Honors Tutorial program.

498T Tutorial Senior Thesis (1-15)
Prereq: perm. M. Chamberlin. Continuation of 497T. See 497T for description.

499T Tutorial Senior Thesis (1-15)
Prereq: perm. M. Chamberlin. Continuation of 497T-498T. See 497T for description.

Microbiology (MICR)

201 Elementary Microbiology (4) (2N)
Prereq: one qtr CHEM and BIOS or PBIO. (Chillcothe and Zanesville campus only, spring) Medical microbiology; topics include microbial and fungal growth, metabolism, and genetics; antimicrobial chemotherapy; principles of immunology, microorganisms, and infectious diseases. 3 lec, 2 lab.

211 Basic Microbiology (4) (2A)
Prereq: one qtr BIOS or PBIO or chemistry or perm. J. Cunningham, E. Rowland. Natural microbial activities, their function in waste and pollution reclamation and disposal, water purification, food production and spoilage, and in public health. 4 lec.

212 Environmental Microbiology Laboratory (2) (2A)
Prereq: 211 or concurrent. J. Cunningham. Characteristics and activities of microbes of special relevance to humans' welfare and those affecting maintenance of environmental quality. 4 lab.

311 General Microbiology (5)
Prereq: 10 hrs BIOS, MICR, PBIO. P. Coschigano, J. Cunningham, C. James, E. Rowland. Properties of bacteria, protista, and viruses, and their importance in our environment. Lab training in common microbiological methods. 3 lec, 4 lab.

325 General Genetics (5)
Prereq: BIOS 172, 173, C or better, or PBIO 111. M. White. Principles and concepts of genetics as revealed by classical and modern investigation. 5 lec.

326 Laboratory Genetics (4)
Prereq: C or better in 325, 463 or CHEM 492. D. Holzschu, M. White. Experiments in basic molecular genetics, including nucleic acid purification and analysis. In vitro recombinant DNA techniques designed to familiarize the student with current laboratory procedures in molecular genetics. 8 lab.

375 Microbial Ecology (3)
Prereq: 275 or PBIO 425; 325 or PBIO 331. P. Coschigano. Examines the interactions of microorganisms with their biotic and abiotic surroundings, including interactions with plants, animals, other microorganisms, air, water, and soil. Additional topics include waste treatment, biogeochemical cycling, and biodegradation/bioremediation. 3 lec.

412 Microbiological Techniques (5)

Prereq: 311, perm. *J. Cunningham*. Semi-independent course gives microbiology major extensive experience in use of microbiological techniques and equipment; information retrieval. 2 lec, 6 lab.

413A Pathogenic Bacteriology (3)

Prereq: C or better in 311. *M. Modrzakowski*. Microorganisms in relation to disease. Disease manifestations; diagnostic and control methods; some aspects of immunity. 3 lec.

413B Pathogenic Bacteriology Laboratory (2)

Prereq: 311; 413A or concurrent. *J. Cunningham*. Pathogenic and clinical diagnostic bacteriological techniques. Complements the lecture material in 413A.

414A Virology (3)

Prereq: C or better in 311. *B. Biegalka*. Emphasis on the study of those events following virus-cell interaction which are critical to viral replication and pathology. Modern methods of isolation and identification of viruses will also be studied. 3 lec.

414B Virology Laboratory (2)

Prereq: 414A or concurrent; perm. *B. Biegalka*. Limited to microbiology majors, others by perm if seats available. 4 lab.

415 Immunology (5)

Prereq: C or better in 311. *K. Goodrum*. Fundamental principles and concepts of immunity and the immune response. Credit not allowed for both 415 and 417. 3 lec, 2 lab.

416 Immunochemistry (5)

Prereq: 311. In-depth study of the molecules involved in the immune response with emphasis on antibody/antigen interactions and immunochemical techniques. 2 lec, 4 and arr lab.

417 Cellular Immunology (4)

Prereq: perm; credit not allowed for both 417 and 415. Addresses cells and tissues of the immune system, maturation of lymphocytes, immunogenetics and gene expression, antigen presentation, T cell recognition and activation, effector cells, hypersensitivity, microbial immunity, tumor and transplantation immunology, and autoimmunity. 4 lec.

418 Epidemiology (4)

Prereq: perm. *W. Romoser*. Modes of spread, cure, and prevention of communicable diseases in humans. 4 lec.

419 Microbial Physiology (5)

Prereq: C or better in 311, 463 or CHEM 491. *P. Coschigano*. Nutrition, function, and metabolism of micro-organisms; pertinent lab work illustrating fundamental principles and various experimental techniques. 3 lec, 4 lab.

425 Molecular Genetics (3)

Prereq: C or better in 311 and 325. *D. Holzschu*. Intended for students majoring in microbiology, molecular biology, or applied biotechnology, microbial genetics is an in-depth study of the genetics of selected procaryotes and their viruses. Topics include the genetic elements of bacteria, mutations and mutagenesis, lysogeny, and phage conversion, mechanisms of gene transfer and recombinations, regulation of gene expression and recombinant DNA. 3 lec.

427 Mechanisms of Gene Regulation (3)

Prereq: CHEM 490 or PBIO 450. *B. Biegalka*. Discussion of the molecular events that regulate gene expression to result in appropriate development and differentiation.

441 Parasitology (6)

Prereq: C or better in BIOS 172, 173. *E. Rowland*. Etiology of human parasites, their transmission, diagnosis, and prevention. 3 lec, 6 lab.

444 Tropical Disease Biology (4)

Prereq: jr. Team-taught lecture and seminar course provides an overview of the nature, impact, and management of tropical diseases and takes a holistic approach in the examination of tropical diseases as systems.

463 Cell Chemistry (4)

Prereq: organic chemistry. *L. Crockett, F. Horodyski, K. Johnson*. Chemistry of carbohydrates, lipids, proteins, and nucleic acids. Principles of enzyme activity and kinetics; metabolic pathways and regulation. 4 lec.

464 Physiological Chemistry Lab (3)

Prereq: 463 or concurrent. *R. Colvin*. Basic procedures in qualitative and quantitative analysis of biological compounds and reactions. 6 lab.

492 Topics in Microbiology (1-6, max 8)

Prereq: 20 hrs of microbiology, including 311; 2.5 g.p.a. in major courses; perm from specific professor. Individual or small-group study of specialized topics in microbiology under supervision of instructor. Special registration with departmental secretary absolutely required.

493 Undergraduate Research (1-3, max 12)

Prereq: 20 hrs and 2.5 g.p.a. in microbiology; perm from specific professor. Independent research under supervision of staff member. Special registration with departmental secretary absolutely required.

494H Undergraduate Research (1-4, max 12)

Prereq: 3.2 g.p.a. in microbiology; perm from specific professor. Individualized and directed research. Students select topics or are directed into possible research areas. Special registration with departmental secretary absolutely required.

495H Undergraduate Research (Thesis) (3-9, max 15)

Prereq: 494H, 3.0 g.p.a. in sciences, sr. Independent departmental honors research under supervision of staff member. Student should enroll qtr he or she expects to complete thesis. Special registration with departmental secretary absolutely required.

Biology (BIOL)

(See also Biological Sciences and Environmental and Plant Biology.)

101 Principles of Biology (5) (2N)

Designed for nonscience majors. Principles of cell biology, physiology, ecology, genetics, and evolution. Credit not allowed for both 101 and BIOS 170 or 101 and BOT 110 or 101 and PBIO 110 or 101 and ZOOL 101 or 101 and ZOOL 170. 4 lec, 2 lab.

Black Studies

See African American Studies.

Business Administration (BA)
100A Introduction to the College of Business I (1)

Prereq: CoB. (fall only) First of a two-part sequence. Provides information about College of Business majors, offices, and services so students are familiar with the available options. Department chairs and directors, administrators, student representatives, and various guest speakers discuss the structure and procedures of the College of Business.

100B Introduction to the College of Business II (1)

Prereq: 100A. Second of a two-part sequence. Provides an introduction to the business profession. Students explore various business majors as they relate to scheduling and career options. Professional development and business research skills are covered along with practical issues related to a smooth transition into the College of Business.

101 Business and Its Environment (4)

Nature of business and of economic, social, and political environments of business firm. Emphasis on ways in which such surroundings affect business policies and operations.

111 History of American Business (4)

Origins and development of American business, emphasizing interrelations among business economy, society, and polity.

298 Internship (1)

Prereq: perm. Internship experience that provides on-site exposure to general business operations and procedures. Intended for experiences following the freshman year.

301 Business and Its Environment (4)

Prereq: jr or sr (not open to those with credit for 101). Nature of business and of economic, social, and political environments of the business firm. Emphasis on ways such surroundings affect business policies and operations.

329 Current Global Issues in Business (4)

Prereq: jr or perm. Examines and compares the characteristics, market niches, and business strategies of various companies during the last four years. Taking examples from the U.S., Japan, Korea, and the other Far East countries, the course will focus upon selected business issues such as productivity, quality, the art of "managing" the businesses, the role of technology, and how to survive in the war of global competition.

345 New Venture Creation I (4)

Prereq: jr or sr. The focus of this two-sequence course is on the development of new business ventures rather than on the management of an existing business. The key outcome of these two courses is the development of a business plan which will be presented to local bank loan officers and/or venture capitalists to be used to raise financial capital. By the end of the first course, students are required to have identified a feasible new product or service, market potential, and competitor products. Additional topics covered are legal issues, exploring available support resources for starting a new venture, and the importance of entrepreneurship in the economy.

350 New Venture Creation II (4)

Prereq: 345. Continuation of 345. Students complete their business plan to local bank loan officers and/or venture capitalists to be used to raise financial capital. The focus in this course is on developing and understanding how to develop the financial projections for the plan and the accounting systems necessary to manage the start-up phase. Additional topics covered are a discussion of potential sources of financing for an entrepreneurial venture, valuation of a company, undertaking, and initial public offerings.

370 Administrative Policy (4)

Prereq: MGT 202, MIS 202, BUSL 255, MKT 202. Integrated application of core studies to nature, functions, and activities of actual business, analyzing objectives, policies, and performance in relation to outside environment.

385 Multinational Business (4)

Prereq: jr. Study of emergence of U.S. and non-U.S. multinational corporations, scope of their operations, and their impact on U.S. economy and consumer.

398 Internship (1-4)

Prereq: perm. Internship experience that provides opportunities for participation in day-to-day activities of a business concern for at least four consecutive weeks. Intended for experience following the sophomore year.

431 Administration of Information Systems (4)

Prereq: sr or perm. Information networks and flows in organizations within total-systems framework.

440 Small Business Consulting (4)

Prereq: 350. Provides students with the opportunity to immerse themselves into the "real world" of small business, and gives an opportunity to apply what they have learned in other courses. Consulting teams of students will perform a "complete audit" of a local business. The student team will be required to assess all areas of the business and come up with recommendations as to how the business can grow faster and become more profitable.

445 Small Business Administration (4)

Prereq: BUSL 255, FIN 325, MGT 202, PRCM 325J, MKT 202, OPN 310. Place and role of small business firms: problems they face, opportunities involved, and competitive considerations.

450 Development of International Business for Small Firms (4)

Prereq: 350. Students will be assigned firms in Ohio, which contact us through local chambers of commerce and the Ohio State Department of Development, and which are interested in evaluating and assessing important business opportunities or networking opportunities in a chosen country. Students will perform an investigation and write a report based on the needs of the Ohio firm. Topics discussed include investigating what sources are available to support small business efforts to develop international business, and how and what the business needs to examine to assess those opportunities.

455 Studies in Business History (4)

Prereq: jr or sr and perm. Case studies of American business figures and firms since early colonial period, with emphasis on 20th century. Lessons from past examined in relation to present sound business policy.

465 Technology and the Environment (4)

Prereq: jr or sr and perm. Course is conceptual, interdisciplinary, and future-oriented. Variety of developmental problems and interaction of many technological environments including economic, sociopolitical, and market environments.

480 Ethics and Morality in Business (4)

Prereq: jr or sr and perm. Combined moral philosophy and personal responsibilities in business; critical analysis of contextual situation where provisional resolutions must be indirectly charted between ethical oughts and economic musts.

497 Independent Research (1-4)

Prereq: perm. Research in selected fields of business administration under direction of faculty member.

498 Internship (1-4)

Prereq: perm.

Business Law (BUSL)**255 Law and Society (4)**

Prereq: soph. Conceptual approach to origin, nature, structure, functions, and procedures of law, with study of ethics and introduction to constitutional, administrative, criminal, tort, contractual, international, and environmental law, as well as business organizations.

265 Law of Contractual Relations (4)

Prereq: 255. Legal aspects of contracts, sales, warranties, products liability, and consumer protection.

298 Internship (1)

Prereq: perm. Internship experience that provides on-site exposure to general business operations and procedures. Intended for experiences following the freshman year.

356 Law of the Management Process (4)

Prereq: 255, jr or perm. Conceptual framework of legal nature of organizations, particularly corporations and partnerships: rights, powers, and limits of managers in relation to duties and responsibilities to their organizations, owners, creditors, employees, customers, state, and public.

357 Law of Commercial Transactions (4)

Prereq: 255, jr or perm. Legal aspects of commercial paper, consumer credit, and bankruptcy.

360 Law of Health Care (4)

Prereq: jr or perm. Analysis of public-private constraints in foundation health agencies; experimentation and risk assumption; medical records; hospital liability; and governmental regulations.

370 Environmental Law (4)

Prereq: jr or perm. Legal aspects of both individual environmental and societal environmental rights and duties with respect to constitution, private property, nuisance, negligence, statutes, regulatory agencies, and court decisions. Emphasis on case study of federal, state, and local laws which shaped existing law and those which are likely to shape future legislative and administrative action.

385 International Business Law (4)

Prereq: jr or perm. Examines the laws, organizations, and principles that impact on business transactions in the international arena. Focuses upon the importance of international business in a global economy and upon the special legal issues facing businesses, large and small, that engage in international trade, franchising, licensing, or investment.

398 Internship (1-4)

Prereq: perm. Internship experience that provides opportunities for participation in day-to-day activities of a business concern for at least four consecutive weeks. Intended for experience following the sophomore year.

442 Law of Property and Real Estate (4)

Prereq: 255 or perm. Property law as an institution and analysis of creation, transfer, and relation of various legal interests in property, especially land.

462 Law of Estates and Trusts (4)

Prereq: 255 or perm. Law as it pertains to decedents' estates, including law of wills, intestate succession, and trusts.

465 Law of Sports (4)

Regulations of amateur athletics, public regulation of sports activities, legal relationships in professional sports, enforcement of professional sports contract, liability for injuries, and antitrust aspects of sports activities.

475 Government and Business (4)

Prereq: 255 or perm. Governmental regulatory environment of business including analysis of statutes, court decisions, and rulings affecting policy decisions.

491 Seminar (1-5)

Prereq: 255 or perm. Selected topics of current interest in business law area.

497 Independent Research (1-5)

Prereq: perm. Research in selected fields of business law under direction of faculty member.

498 Internship (1-4)

Prereq: perm.

Business Management Technology (BMT)

The following courses for the A.A.B. in business management technology are available on the Chillicothe, Lancaster, and Southern campuses. These courses are not open to students in the College of Business.

101 Business and Its Environment (4)

Nature of business and of economic, social, and political environments of business firms. Emphasis on ways in which such surroundings affect business policies and operations.

110 Introduction to Management (4)

Nature of managerial concepts, managerial functions, and organizational structure, with emphasis on current issues.

115 Foundations of Quality and Continuous Improvement (4)

History of the quality movement along with the current thinking and best practices for organization effectiveness. The quality of management and its responsibilities for overall effectiveness will be emphasized.

120 Mathematics in Business (4)

Prereq: MATH 101 or equivalent. Application of basic math to business problems. Special emphasis on compound interest, installment buying, and depreciation. Elementary applications of probabilities and statistics. Introduction to computer programs commonly used in business math applications.

140 Concepts of Marketing (4)

Introduction to problems of manufacturers, whole-salers, and retailers as they relate to modern marketing, market, and product.

150 Elements of Supervision (4)

Concepts of modern-day supervision. Emphasis on supervisor's major functions and development of sensitivity to human facets in management, using behavioral science findings.

170 Small Business Operations (4)

Includes preparation of student for selection and operation of small business. Balanced program of all major aspects confronting small business operator, including finance, personnel, sales, and success and failure factors.

189 Independent Study (1-5, max 5)

Projects concerning business technology explored with instructor in teams or one-to-one. Studies selected in subject areas in business field.

200 Introduction to Business Computing (4)

Focuses on PC-based applications used in business and industry, such as word processing, spreadsheets, databases, and presentation packages. Computer lab setting.

203 Business Career Profiles (3)

Practical approach to better understanding by students of what is expected of them by management and what they can expect from management on any job or in any working situation by achieving a better grasp of the various activities and institutions found in the business community.

210 Managing Finance in Business (4)

Prereq: ATCH 103 and 104, or ACCT 101 and 102. Introduction to basic concepts, principles, and analytical techniques of financing. Emphasis on planning and managing assets.

220 Concepts of Purchasing Management (4)

Analysis of purchasing operation's structure and procedure. Descriptions of quality, quantity, value analysis, sources of supply, and procurement controls. Vendor/buyer relationships, make-or-buy decisions, inventory control, buyer training, materials handling, records, and budgets.

230 Concepts of Sales (4)

Policies and procedures pertaining to planning sales effort and control of sales operations. Personality development and role of selling in society, careers, and psychology and philosophy as related to selling.

240 Concepts of Audience Analysis (3)

Prereq: not open to College of Business majors. Development of knowledge of behavior content of marketing in consumer fields. Examination of applicable theory and research findings and concepts provided by psychology, sociology, anthropology, and marketing. Stress on conceptual models of buyer behavior based on sources of influence.

250 Practical Personnel Procedures (4)

Hiring, training, assignment of work, employee counseling, promotion, wage and salary administration. Leadership, motivation, and direction of employees toward management/employee-oriented goals.

260 Business Report Writing (4)

Prereq: Tier I ENG; not open to College of Business majors. Practice in planning and writing effective business letters, memoranda, and reports.

270 Advertising Concepts (4)

General course in advertising which emphasizes psychology, advertising agency, media research, brands, and labels.

275 Managerial Planning (4)

Prereq: 200, CTCH 125, CS 120, MIS 201, or OTEC 230. In-depth coverage of the planning process with emphasis on strategic planning. The case study approach is employed to develop skill in complex and difficult decision making. Applications in management science to assist in the decision process are covered.

280 Concepts of Labor and Management Relations (4)

A broad overview of micro and macroeconomic theory as applied to the labor factor of production; the many problems related to the full utilization of human resources and government policies addressing these problems; the effects of unionism and labor-management relations including collective bargaining.

285 Government and Business (4)

Business and government relations, with emphasis on analysis of selected areas involving public policy and business.

288 Computer Applications for Management (4)

Prereq: 275. Utilizes integrated software package skills acquired in 200 and in comprehensive case-studies approach in business. Spreadsheet, data base management, word processing, and graphics applications used to create comprehensive business report that ties together overall curriculum.

289 Special Topics (1-5, max 5)

Advanced projects concerning business technology explored with instructor in teams or one-to-one. For advanced students only.

Chemistry (CHEM)**101 Chemistry Applied to Today's World (4) (2A)**

(spring) Designed for nonscience majors with little or no previous experience with chemistry. Applications of basic principles of chemistry to real world situations. Instruction will include multimedia and small group activities. 4 lec.

115 Preparation for College Chemistry (2)

Prereq: fr only, or perm. For students who have not had high school chemistry or have had inadequate preparation to enter regular chemistry sequence. Material presented includes metric system, atomic and molecular structure, formulas, equations, states of matter, and problem solving. Will not satisfy any part of natural sciences requirement of College of Arts and Sciences. 2 lec.

121 Principles of Chemistry I (4) (2N)

(fall, winter) Introduction to chemistry through study of atomic and molecular structure, periodic table, and states of matter. Recommended for students in College of Education (except B.S.Ed. majors in biological science, chemistry, and physics), and other programs requiring only 1 yr of chemistry. Credit not allowed for both 121 and 151. 3 lec, 3 lab.

122 Principles of Chemistry II (4) (2N)

Prereq: C- or better in 121, or 151. (winter, spring) Introduction to descriptive inorganic chemistry through study of solutions and concept of equilibrium. Credit not allowed for both 122 and 152. 3 lec, 3 lab.

123 Principles of Chemistry III (4) (2N)

Prereq: 122 or 152 or perm. (spring, fall) Designed to survey organic chemistry and biochemistry and their impact upon daily existence. 3 lec, 3 lab.

151 Fundamentals of Chemistry I (5) (2N)

Prereq: MATH 113 or placement above 113; passing score on chemistry placement exam. (fall, winter, summer) General course in fundamental chemical principles. Atomic structure, periodic classification, bonding, mole concept, and stoichiometry with problem solving. Recommended for majors in chemistry, engineering, biological sciences, plant biology, clinical laboratory science, geological sciences, secondary education (B.S.Ed. in biological sciences, chemistry, and physics), and preprofessional (biological science) areas. Credit not allowed for both 121 and 151. 4 lec, 3 lab.

152 Fundamentals of Chemistry II (5) (2N)

Prereq: C- or better in 151 or perm. (winter, spring, summer) States of matter, solutions, kinetics, acids, bases, and chemical equilibrium with problem solving. Credit not allowed for both 122 and 152. 4 lec, 3 lab.

153 Fundamentals of Chemistry III (5) (2N)

Prereq: 152 or perm. (fall, spring) Introduction to thermodynamics. Study of the chemistry of transition metals and selected representative elements. Introduction to nuclear and radiochemistry. Lab includes qualitative analysis. 4 lec, 3 lab.

241 Quantitative Analysis (4)

Prereq: 153 and concurrent with 242. (fall) Introduction to quantitative techniques to include volumetric and gravimetric methods of analysis. Concurrent registration in 242 required for initial enrollment. 4 lec.

242 Quantitative Analysis Laboratory (1)

Prereq: 241 or with 241. (fall) Laboratory work to accompany 241. Concurrent registration in 241 required for initial enrollment. 3 lab.

301 Organic Chemistry (3)*

Prereq: 123 or 153, or concurrent. (fall, summer) Designed for students who are not B.S. chemistry majors and who do not require a full-year course in organic chemistry.

302 Organic Chemistry (3)*

Prereq: 301. (winter, summer) Continuation of 301. See 301 for description.

303 Organic Chemistry Laboratory (2)*

Prereq: 301 or 305, or concurrent. (fall, spring, summer) Designed for students who are not B.S. chemistry majors. 1 lec, 2 lab.

304 Organic Chemistry Laboratory (3)*

Prereq: 303; 302 or 307, or concurrent. (winter, spring, summer) Continuation of 303. See 303 for description. 6 lab.

305 Organic Chemistry (3)*

Prereq: 153 or with 153 or perm. (fall) Organic chemistry for chemistry majors and other students wishing to acquire sound knowledge of classical and modern organic chemistry.

306 Organic Chemistry (3)*

Prereq: 305. (winter) Continuation of 305. See 305 for description.

307 Organic Chemistry (3)*

Prereq: 306. (spring) Continuation of 305-306. See 305 for description.

308 Organic Chemistry Laboratory (3)*

Prereq: 306, or concurrent; major or perm. (winter) Emphasis on microscale synthesis, purification, and characterization of organic compounds. Designed for B.S. chemistry majors. 6 lab.

309 Organic Chemistry Laboratory (3)*

Prereq: 308 and 307 or with 307. (spring) Continuation of 308. See 308 for description.

325 Instrumental Methods of Analysis (4)

Prereq: 241 and 242. (winter) Analytical chemistry course for students not majoring in chemistry, which emphasizes application of instrumental methods to solution of problems in chemical analysis. 3 lec, 3 lab.

330 Introduction to Toxicology (4)

Prereq: 302 or 307. Introduction to chemical, clinical, environmental, and forensic aspects of toxicology, types of poisons, how poisons act, treatment of acute poisoning, and control of poisonous materials.

345 Chemistry of Photography (4)

Prereq: 122 or 152 and ART 192. Basic chemistry of modern and historical photographic and photomechanical materials and processes. 2 lec, 4 lab.

351 Physical Chemistry (4)

Prereq: MATH 163B or 263B, or perm and 153 (fall) For premedicine, B.S.Ed., B.S.I.H., and A.B. chemistry majors. Topics include thermodynamics, thermochemistry, equilibrium, solutions, and kinetics.

400A Advanced Organic Laboratory (2)

Prereq: 307, 309. (fall, spring) Advanced lab techniques and instrumentation. 1 lec, 6 lab (for five-week session).

400B Advanced Inorganic Laboratory (2)

Prereq: 476 or with 476. (fall, spring) Advanced inorganic laboratory synthesis and techniques. 1 lec, 6 lab (for five-week session).

420 Chemical Literature (3)

Prereq: 24 hrs. Instruction in use of chemical literature and application to scientific writing.

431 Chemical Separation Methods (3)

Prereq: C- or better in 241; and 351 or 453, or concurrent. (winter) Modern methods of separating components of complex mixtures with emphasis on operation and application to analytical chemistry. Topics include liquid-liquid extractions, partition chromatography, ion-exchange, gas chromatography, high pressure liquid chromatography, exclusion chromatography, and electrophoresis. Concurrent registration in 434 required for initial enrollment. 3 lec.

432 Chemical Instrumentation and Electrochemistry (3)

Prereq: C- or better in 241; and 351 or 453, or concurrent. (spring) Modern electrochemical techniques and instrumentation with emphasis on their applications in analytical chemistry. Topics include potentiometry, specific ion electrodes, DC and AC polarography, pulse polarography, coulometry, chronocoulometry, cyclic voltammetry, and rapid scan voltammetry. Concurrent registration in 435 required for initial enrollment. 3 lec.

433 Spectrochemical Analysis (3)

Prereq: C- or better in 241; and 351 or 453, or concurrent. (fall) Survey of spectrochemical instrumentation with emphasis on their operation and applications in analytical chemistry. Topics include atomic absorption, atomic emission, molecular absorption and molecular emission and will cover emission-absorption phenomena in the X-ray, ultraviolet, visible, and infrared regions of electromagnetic spectrum. Concurrent registration in 436 required for initial enrollment. 3 lec.

434 Chemical Separation Methods Laboratory (1)

Prereq: 431 or concurrent. (winter) Laboratory work to accompany 431. 3 lab.

435 Chemical Instrumentation and Electrochemistry Laboratory (1)

Prereq: 432 or concurrent. (spring) Laboratory work to accompany 432. 3 lab.

436 Spectrochemical Analysis Laboratory (2)

Prereq: 433 or concurrent. (fall) Laboratory work to accompany 433. 4 lab.

453 Physical Chemistry (3)

Prereq: 153, MATH 263D or concurrent, PHYS 253. (fall) Calculus based study of thermodynamics with applications to chemical equilibria.

454 Physical Chemistry (3)

Prereq: 453. (winter) Continuation of 453. Thermodynamics of mixtures, phase diagrams, chemical equilibrium, ionic solutions, and chemical kinetics.

455 Physical Chemistry (3)

Prereq: 454. (spring) Continuation of 454. Quantum theory with applications to simple systems which model the electronic structure of atoms and molecules.

456 Physical Chemistry Laboratory (3)

Prereq: 351 or 453. Experimental determination of molecular weights, ionic velocities, composition of azeotropes and complex ions, equilibrium constants, phase rule diagrams, and vibrational and rotational constants for HCl, DC1. Instrumental procedures include refractometry, polarimetry, viscometry, and infrared spectroscopy. 6 lab.

457 Physical Chemistry Laboratory (3)

Prereq: 456. Continuation of 456. 6 lab.

458 Chemical Thermodynamics (3)

Prereq: 455. (spring) Concepts of energy and entropy and their use in predicting feasibility and extent of chemical reactions.

459 Physical Chemistry (3)

Prereq: 454. (spring) continuation of 454. Topics include surfaces, solids, electrical conduction and transport properties, photochemistry, and polymers.

460 Spectroscopic Methods in Organic Chemistry (3)

Prereq: 302 or 307. (spring) Modern spectroscopic methods as employed in organic chemical research: NMR, IR, UV, ESR, and mass spectrometry.

471 The Physical Chemistry of Macromolecules (3)

Prereq: 454. Effects of structure and molecular weight on physical and chemical properties of macromolecules. Topics include molecular weight distribution, solubility, polymer conformation, different types of polymers, synthesis, and reactions. Both synthetic and natural polymers considered.

476 Modern Inorganic Chemistry (4)

Prereq: 351 or 453 or with 351 or 453. (fall) considers relationship between physical and chemical properties of inorganic substances and nature of bonding and structures involved. 4 lec.

479 Radiochemistry (4)

Prereq: 153. Applications of isotopes to problems in chemistry; safe handling of radioactive material; detection and determination of radiation. 2 lec, 4 lab.

480 Advanced Organic Chemistry (4)

Prereq: perm. (fall) Structural theory, stereochemistry, reactive intermediates, and reaction mechanisms.

487 Forensic Chemistry (6)

Prereq: C or better in 431 and 433. Surveys chemical problems most frequently encountered in crime lab and their currently acceptable solutions, as well as special techniques not covered in other analytical chemistry courses. 3 lec, 6 lab.

488A Special Topics in Forensic Science I (3)

Survey topics, which are not included in CHEM 487 or law enforcement technology (LET) courses, relevant to the modern crime lab. These topics include forensic photography, arson, analysis, toolmark/firearm/document identification, and forensic entomology.

488B Special Topics in Forensic Science II (3)

Survey topics, which are not included in CHEM 487 or law enforcement technology (LET) courses, relevant to the modern crime lab. These topics include forensic psychiatry, forensic anthropology, forensic odontology, and forensic computer science.

489 Basic Biochemistry (4)

Prereq: 302 or 307 or perm. (winter) Survey course, including introduction to biochemical concepts and techniques, metabolic pathways, and information storage and transmission, with emphasis on directions of current biochemical research.

490 General Biochemistry I (4)

Prereq: 307. (fall) Macromolecular structure of biomolecules.

491 General Biochemistry II (3)

Prereq: 490. (winter) Bioenergetics, metabolism, and metabolic control systems. Physical chemistry recommended.

492 General Biochemistry III (3)

Prereq: 491. (spring) Complex integrated biochemical systems.

493 Biochemical Techniques (3)

Prereq: 492; biochemistry major or perm. (fall) Laboratory course using modern biochemical and molecular biology techniques including electrophoresis, chromatography, enzyme kinetics, and amino acid analysis. 6 lab.

494 Biochemical Research (1-5)

Prereq: 493. (fall, winter, spring) Independent work in a biochemistry laboratory. Students will be assigned a research project which will use various biochemical research techniques. Students may enroll one or more quarters. 2-10 lab.

497 Forensic Chemistry Internship (3-10)

Prereq: sr in Forensic Chemistry Program and perm. Supervised work in approved forensic science lab to gain practical experience. Oral and written reports required.

499 Undergraduate Research (1-5)

Prereq: jr or sr with 2.75 g.p.a. in chemistry courses and perm of department chair. Independent work for qualified upperclass majors in chemistry and related areas. Student may enroll one or more quarters.

*Credit is not allowed for both sequences of organic chemistry courses—301-302-303-304 and 305-306-307-308-309. Transfer from the middle of one sequence to the other may be possible, but is permitted only upon approval of the faculty in the courses involved.

Chinese

See Foreign Languages and Literatures.

Classical Archaeology (CLAR)**211 Greek Archaeology (4) (25)**

Provides an introduction to Greek society as known from archaeology; covers the period from the Minoan and Mycenaean Bronze Age to Hellenistic times. Topics include the initial development of civilization in Greece and its rebirth after the Dark Ages, the continuing interchange of ideas between the Near East and Greece, the development of architectural styles and building complexes, and the role of public art in the propaganda of a city. Emphasis is on the use of archaeology to interpret the social development of the Greeks.

212 Roman Archaeology (4) (25)

Traces the development of one ethnic group, the Romans, in their appropriation and transformation of various native, Etruscan, and Greek artistic styles. Focuses on the different social, political, and artistic influences that contributed to the continuous change and development of Roman material culture, and emphasizes the Roman ability to adapt and innovate. Topics include the nature of Greek influence on Italian culture, the development of a characteristic Roman architecture, archaeological evidence for the economy, the development of public and private art styles, and the Roman provinces.

213 Near Eastern and Egyptian Archaeology (4) (25)

Survey course tracing the initial development of complex urban states in Mesopotamia, Syro-Palestine, Anatolia, and Egypt from the Late Neolithic into the Early Bronze Age, and their increasing influence on each other from the Middle through the Late Bronze Age and into the Iron Age. Presents the main elements of society, art, and architecture in these major Near Eastern cultures. Topics include the role of religion in the early states, the rise of the absolute ruler, trade networks, and the growth of the Egyptian and Hittite empires.

352X Ancient Rome: Development of the City from the 8th Century B.C. to the 4th Century A.D.

Prereq: Any LAT course or CLAS 254 or CLAR 212 or HIST 329B. An introduction to the urban development of ancient Rome through an intensive on-site examination of its monuments and artifacts. The focus is on field work. While Rome is the focus of the course, several days are also spent at Ostia and Pompeii to highlight aspects of Roman life not readily observable in modern Rome.

361 Greek Cities and Sanctuaries (4)

Historical overview of the evolution of the ancient Greek city and of the principal Greek religious sanctuaries, followed by a detailed introduction to the topography and monuments of representative sites.

362 The Archaeology of Roman Cities (4)

An archaeological study of Rome and other Roman cities from the 8th century B.C. to the fall of the Roman empire. Particular emphasis is placed on the physical remains as products of and evidence for the changing cultural and political concepts that constantly revised the design and composition of Roman cities.

363 Aegean Archaeology (4)

Uses archaeological evidence and methods to trace the development of the three main Aegean civilizations—Minoan, Cycladic, and Mycenaean—from the appearance of the first agricultural communities in the Neolithic period (6000 B.C.) to the widespread destruction and subsequent economic decline at the end of the Bronze Age (1100 B.C.). Focuses on the archaeological evidence for state formations and the internal factors and external influences that shaped the palace complexes on Crete and in Greece.

451 Mycenaean Society (4)

Examines Mycenaean society primarily from the information in Mycenaean texts including original Linear B texts, put into perspective through the use of archaeological material. Examines the development and use of scripts in the Aegean to record different aspects of the palace economy. Topics include the social structure within and outside the palaces, agriculture, craft production, trade, the demise of the palace economic system, and the relevance of the Homeric poems to our understanding of Mycenaean society. (No linguistic prerequisite.)

Classics in English (CLAS)

The lectures and readings for these courses are in English, and the courses may count as part of the humanities area requirement of the College of Arts and Sciences. These courses cannot count as part of the foreign language requirement of the College of Arts and Sciences.

127 Greek and Latin Words in English (4) (2H)

General and technical vocabulary derived from Greek and Latin. No knowledge of Greek or Latin required. No credit toward meeting foreign language requirement.

227 Greek and Latin Roots in Biomedical Terminology (4)

This course teaches students a vast number of Greek and Latin linguistic elements (bases, prefixes, suffixes, etc.) and basic linguistic principles useful to anticipating meanings of biomedical terminology via etymology.

234 Classical Mythology (4) (2H)

Introduction to classical mythology; readings and discussions of myths and their interpretations. No knowledge of Greek or Latin required. No credit toward meeting foreign language requirement.

235 Classics in Translation (4) (2H)

Reading of Greek and Latin literature in English translation. May be counted as part of requirements for humanities of College of Arts and Sciences. No knowledge of Greek or Latin required. No credit toward meeting foreign language requirement.

236 Classics in Translation (4) (2H)

Continuation of 235.

237 Classics in Translation (4) (2H)

Continuation of 236.

252 Classical Athens (4) (2H)

Study of classical Athens as the city and its people are known to us from the written texts and archaeological remains of the period.

254 Rome under the Caesars (4) (2H)

An interdisciplinary approach to life and thought in Rome from the reigns of Augustus through Marcus Aurelius (27BC-AD180) based on archaeological, historical, and literary sources.

255 Pagan to Christian in Late Antiquity (4) (2H)

An interdisciplinary approach to the dramatic changes that occur in ways of looking at the individual and his place in the world during the 4th through 6th centuries of our era as paganism is replaced by Christianity as the dominant religious view. The geographical foci are Rome and Constantinople. The sources are textual, artistic, and archaeological.

301 Love in Antiquity (4)

Reading and discussion of major literary and philosophical treatments of love in Greco-Roman tradition. All readings are in English translation. No knowledge of Greek or Latin required.

311 Gods and Heroes in Greek Epic (4)

A survey of the history, literature, and values of the Greek Heroic period: Mycenaean heroes (Achilles, Agamemnon, Ajax, Odysseus, Jason, etc.), and the Epic tradition (Homer, Hesiod, Apollonius) who passed on their stories to later generations of Greeks.

312 Greek Tragedy (4)

A survey of Greek tragedy in English translation: extensive reading from Aeschylus, Sophocles, and Euripides. Study of the historical and cultural setting and the literary aspect of the plays.

313 Greek Sophists and Orators (4)

An introduction to the new modes of oratory and argumentation which flourished in the context of 5th-century B.C. Greek democracy.

343 Women in the Ancient Mediterranean (4)

Prereq: soph or WS 100. Survey of aspects of women's lives in ancient Greece, Rome, Egypt, and Mesopotamia based upon textual and archaeological material, with an emphasis upon the cultural biases inherent in the sources.

351X On-Site Survey of Greek History (4)

A survey of Greek history from Mycenaean to modern times, with particular attention to sites on the itinerary of the study abroad program in Greece.

401 Life of the Romans (4)

An examination of Roman life from a number of perspectives emphasizing the Roman family, sexual attitudes, slavery, and the economy. Attention given to the means by which classicists draw conclusions about ancient Roman life and social attitudes.

498 Independent Study in Classical Literature (1-8, max 8)

Prereq: perm. Directed individual reading and research.

Communication Systems Management (COMT)

101 Consumer Issues in Communication Systems Management (4)

Provides a broad overview of issues in voice, data, and image communications. Topics focus on consumer issues, technological advancements, and the impact of communication systems on society.

214 Introduction to Communication Systems Management (4)

General principles and techniques of point-to-point telecommunications. Includes brief history of field and general introduction to technology of voice, data, and image transmissions.

220 Communication Systems and Applications I (4)

Prereq: 214, major. Principles of operation and design of typical voice and imaging communication systems. Includes switching, transmission, traffic studies, queuing techniques, and broadband networks.

222 Communication Systems and Applications II (4)

Prereq: 214, major. Principles, theories, and technology of data networks are explored in this course. Topics include coding and timing of data, components of data networks, and protocols.

302 Fundamentals of Common Carrier Regulation (4)

Prereq: 214, 220, ECON 103, major. Study of regulatory systems, tariff structures, and costing of telecommunications across state and national boundaries. Basic policy development at state and federal levels. Impact of the break-up of the Bell system.

304 Applications of Common Carrier Regulation (4)

Prereq: C or better in 302, major. Provides applications of the materials learned in 302. Topics include the tariff filing process, rate making methodologies, the Computer Inquiries, and regulation of emerging technologies.

310 Technological Basics of Communication Systems (4)

Prereq: 220 and 222, major. Investigation of the technical issues common to all communications systems. Topics include basic electrical and electromagnetic theory, fundamentals of circuits and components, and operation of the telephone and other communications equipment.

312 Technology of Voice/Data Systems (3)

Prereq: 310, major. Basic laboratory experience in the technologies commonly found in voice and data telecommunication systems. Students design, examine, and build basic telecommunication circuits; and develop both competency in the use of telecommunication test equipment and skills in system problem analysis.

325 Data Networks (4)

Prereq: 220 and 222, major. Provides the understanding needed to use telecommunication protocols and access methods to design and implement applications software in a data communications environment. Topics will include: SNA, DECNET, selected other protocols, and the OSI model.

379 Protection of Communication Systems (3)

Prereq: 220, 222, major. Examination of security and protection of communications systems and networks. Topics will include disaster prevention and recovery, securing voice and data systems against hackers, and securing sensitive information.

391 Topical Seminar (3-4)

Prereq: 220, 222, major. Specialized topics, taught by faculty or visiting professionals.

401 Internship in Communication (1-12)

Prereq: written proposal and perm. Internship with approved company, agency, or organization. Application necessary; comprehensive paper required. Students may not apply both 401 and 495 toward COMT elective requirement.

405 Competition and Market Structure in Network Industries (4)

Prereq: 304, 310, major. An in-depth analysis of policy issues of fundamental concern to the voice/data communication environment. Examples of such issues would be voice/data communication and economic development, or equitable access to the nation's public communication network.

407 International Communication Networks (4)

Prereq: 302, 310, major. A study of international communication organizations (PTTs, the ITU, etc.), international satellite organizations, and other international record carriers. The course will explore current issues in international standards and regulations.

429 Communication Network Analysis and Design (4)

Prereq: 220, 222, 304, statistics, major. An extensive examination of the process of designing communications networks. Topics will include statistical distribution of voice, data, and image traffic; definition of limitations in communication networks; and experiences in modeling various network topologies.

431 Senior Seminar (2)

Prereq: 302, 222, major. Weekly discussions with faculty and telecommunication professionals; position papers required for discussion and presentation.

444 Management of Communication Resources (4)

Prereq: 304, major. Case studies in costing communication carriers; developing and responding to RFPs/RFOs; and needs analysis of communication installations. Extensive paper required.

491 Topical Seminar (3-4)

Prereq: 222, 302, major. Specialized topics taught by faculty or J. Warren McClure Distinguished Visiting Professor.

493 Special Studies (1-4, max 12)

Prereq: 214, major, and proposal. Independent study, supervised by faculty.

495 Practicum in Communication Systems (3-5, max 12)

Prereq: perm. Faculty-supervised first-hand experience with installing, designing, configuring, maintaining, or otherwise managing communication systems. A written report is required. Students may not apply both 401 and 495 toward COMT elective requirement.

Comparative Arts (CA)

Offerings include courses in introduction to fine arts and history courses in individual content areas.

CA 117 and 118 are provided for majors in the College of Fine Arts who wish to study the relationship of all the arts, and for all students in the university who wish to select courses with the basic purpose of understanding their cultural heritage.

These courses fulfill

1 Tier II requirements for majors in the College of Fine Arts.

2 Tier II requirements for students in other degree colleges and for transfer students from other universities; and

3 State requirements for licensure in the College of Education.

117 Introduction to Fine Arts (4) (2H)

Designed to develop and increase the perceptual skills of students in the arts through an examination of subject, matter, form, and content in each art by means of a critical method of analysis. Painting, sculpture, architecture, literature, and music are covered. Opportunities for participation with the arts through lectures, technical demonstrations, campus field trips, and small-group discussions.

118 Introduction to Fine Arts (4) (2H)

Prereq: 117. Designed to develop and increase the perceptual skills of students in the arts through an examination of subject, matter, form, and content in each art by means of a critical method of analysis. Photography, film, theater, dance, and opera are covered. Opportunities for participation with the arts through lectures, technical demonstrations, campus field trips, and small-group discussions.

150 Viewing Performance (2)

Integrates classroom and student life activities at the university by combining the productions of the Schools of Music, Dance, and Theater with a seminar course dealing with characteristics and artistic concerns of each medium. A two-hour seminar precedes and follows each of the performances. No credit to those with credit for DANC 150, MUS 150, or THAR 150.

211 History of Art (4) (2H)

Survey of Western painting, sculpture, and architecture from prehistoric to early Christian. Students advised but not required to enroll in 211, 212, and 213 in sequence. No credit to those with credit for AH 211.

212 History of Art (4) (2H)

Continuation of 211 from early Christian period of Europe through Renaissance. Students advised but not required to enroll in 211, 212, and 213 in sequence. No credit to those with credit for AH 212.

213 History of Art (4) (2H)

Continuation of 212 from Baroque to present. Students advised but not required to enroll in 211, 212, and 213 in sequence. No credit to those with credit for AH 213.

270 Theater History I (4) (2H)

Development of theater and drama in prehistoric, Greek, and Roman periods. No credit to those with credit for THAR 270.

271 Theater History II (4) (2H)

Development of theater and drama in Medieval and Renaissance periods. No credit to those with credit for THAR 271.

272 Theater History III (4) (2H)

Development of theater and drama from Renaissance to modern. No credit to those with credit for THAR 272.

320X Fine Arts—Florence (1-6)

Prereq: enrollment in OU Italy Program. (spring) Study of fine arts as seen and performed in city of Florence. Churches, museums, and galleries, along with theatrical and musical events, provide examples for study.

321 History and Literature of Music (3)

Prereq: MUS 103. *R. Wetzel*. History of music with survey of musical literature to 1450. No credit to those with credit for MUS 321.

322 History and Literature of Music (3)

Prereq: 321 or MUS 321. *R. Wetzel*. History of music with survey of musical literature, 1450-1720. No credit to those with credit for MUS 322.

323 History and Literature of Music (3)

Prereq: 322 or MUS 322. *R. Wetzel*. History of music with survey of musical literature, 1720 to present. No credit to those with credit for MUS 323.

355A Cultural Traditions and the Arts (4)

(fall) Survey of principal styles of Western art as mirrored in selected masterpieces of architecture, sculpture, painting, music, and literature. Specific works of art are examined in relationship to one another and against background of ideas that animated life of their times. Incorporates class discussion, small-group projects, lectures, and guest artists to provide a broad base for the study of the arts in their cultural context (Greek, Roman, Medieval).

355B Cultural Traditions and the Arts (4)

(winter) Survey of principal styles of Western art as mirrored in selected masterpieces of architecture, sculpture, painting, music, and literature. Specific works of art are examined in relationship to one another and against background of ideas that animated life of their times. Incorporates class discussion, small-group projects, lectures, and guest artists to provide a broad base for the study of the arts in their cultural context (Renaissance, Baroque).

355C Cultural Traditions and the Arts (4)

(spring) Survey of principal styles of Western art as mirrored in selected masterpieces of architecture, sculpture, painting, music, and literature. Specific works of art are examined in relationship to one another and against background of ideas that animated life of their times. Incorporates class discussion, small-group projects, lectures, and guest artists to provide a broad base for the study of the arts in their cultural context (19th and 20th centuries).

360J Writing in the Arts (4) (1J)

Prereq: 117, 118; major in fine arts; or perm. Critical analyses of form, media, and content in fine arts stressing instruction in critical writing.

400 Senior Seminar: Comparative Arts (3)

Prereq: fine arts sr or perm. Designed to increase insight of art majors into all fine arts. Specifically, to understand similarities and differences which exist among several arts through consideration of basic aesthetic concerns.

419 Great Masterworks (4)

Life, times, and works of at least two major artists within specified cultural period.

470 Tragedy (4)

Study of tragic genre through study of plays and critical and theoretical documents. No credit to those with credit for THAR 470.

471 Comedy (4)

Study of comic genre through examination of plays and critical and theoretical documents. No credit to those with credit for THAR 471.

472 Forms of Drama (4)

Study of genres of melodrama, farce, and tragicomedies through examination of plays and critical and theoretical documents. No credit to those with credit for THAR 472.

481 Individual Problems (1-6)

Prereq: perm.

Computer Science (CS)
120 Computer Literacy (4)

Prereq: MATH 101 or placement level 1. Introductory course for students who expect to use computers as problem-solving tools in academic work. Special emphasis on literacy—the basic concepts and hands-on skills that are necessary in an information age. Students work in Windows environment to learn basics of word processing, spreadsheets, database management, and presentation graphics. Special user accounts and Netscape are used to introduce the Internet and World Wide Web. No credit if CS major; no credit if MIS 100 or HS 309.

135 Special Topics in Programming with BASIC (2-5, max 5)

Prereq: MATH 101. Introduction to computing using micro-, personal, home, or office computers using BASIC language. Extensive programming exercises assigned exploring capabilities of computers. Course does not apply to Arts and Sciences natural science requirement.

199 Computer Usage Laboratory (1-2)

Prereq: concurrent enrollment in interactive programming course. (on demand) Laboratory course for introducing students to interactive computing facilities at Ohio University: VM/CMS, VAX/VMS, UNIX, and microcomputer networks.

210 Programming in C (5)

Prereq: MATH 113 or placement level 2 or 263A or 163. Basic programming and programming structure, computer organization, data representation, control structures, manipulation of strings, arrays, structures, and pointers. Computer solutions to a variety of problems using the C programming language. Debugging and verification techniques.

220 Introduction to Computing (5) (IM)

Prereq: MATH 113 or equiv. Algorithms, programs, and computers. Basic programming and program structure. Programming and computing systems. Debugging and verification of programs. Data representation. Organization and characteristics of computers. Computer solution of several numerical and nonnumerical problems using one or more programming languages. Course does not apply to Arts and Sciences natural science requirement. Not open to those with credit for 321 or 322. FORTRAN taught.

223 Introduction to Computing for Business (5)

Prereq: MATH 113 or equiv. Principles and practice of computer solution of problems in business. Typical problems exist in accounting, quantitative methods, and management. COBOL is used.

228 Introduction to Prolog (4)

Prereq: 120 or MIS 100 or perm. A general introduction to logic programming using the language Prolog. Begins with an orientation on the PC system and the programming environment for Prolog. Subsequently emphasizes rule-based programming and the relationship between rules, queries, goals, and facts. The programming assignments will emphasize problem solving which requires deduction and the use of the built-in inference engine.

230 Computer Programming I (5) (2A)

Prereq: grade of 2.0 or better in MATH 113, or equiv. Basic programming and program structure. Programming and computing systems. Debugging and verification of programs. Data representation. Organization and characteristics of computers. Survey of computers, languages, systems, and applications. Computer solution of several numerical and nonnumerical problems using one or more programming languages. PASCAL taught.

231 Computer Programming II (5)

Prereq: grade of 2.0 or better in 230. Continuation of 230. Introduction to intermediate programming techniques (e.g., recursion, use of pointer variables, backtracking) and data structures. Definitions and specifications of syntax and semantics of programming languages. Continued use of structured language in 230 with examples chosen from nonnumerical problems.

235 Advanced Programming in BASIC (5)

Prereq: 135 or 120 with extensive programming experience. Continues 135 with advanced topics and exposure to mini- and mainframe computers. Organizing and handling files and data bases will form core at level sufficient for use in small businesses and industries.

238 Introduction to Computer Systems (5)

Prereq: 231 or 240B. Computer structure, machine language, instruction execution, addressing techniques, and digital representation of data. Computer systems organization, logic design, microprogramming, and interpreters. Symbolic coding and assembly systems, macro definition and generation, and program segmentation and linkage. systems and utility programs, programming techniques, and recent developments in computing. Several computer projects to illustrate basic machine structure and programming techniques.

240A Introduction to Computer Science (5)

Prereq: MATH 115 or math placement level 3 or MATH 263A; CS 230 or ET 181 or perm. An intensive introduction to the process of algorithmic problem solving in a computing environment. Topics include problem definition and specification, algorithm design, efficiency and validity of implementation, as well as social and ethical implications of computational solutions. Serves as an introduction to advanced topics in computer science.

240B Introduction to Computer Science (4)

Prereq: 240A, MATH 263A. Implementation and application of standard data structures and their operations, abstract data types and encapsulation, sorting, searching, storage management and complexity of algorithms. Continuation of 240A.

240C Introduction to Computer Science (4)

Prereq: 240B, MATH 263B. One large program will be developed by the student with design guidance from the instructor. This course will synthesize the material from 240A and 240B into a disciplined approach to design and development using current software engineering principles and practices for specification, design, coding, and testing.

297T Computer Science Tutorial (1–15)

Prereq: HTC students only. (fall) First-year tutorial studies in computer science.

298T Computer Science Tutorial (1–15)

Prereq: HTC students only. (winter) First-year tutorial studies in computer science.

299T Computer Science Tutorial (1–15)

Prereq: HTC students only. (spring) First-year tutorial studies in computer science.

300 Introduction to Discrete Structures (5)

Prereq: 240A. Review of set algebra including mappings and relations. Algebraic structures including semi-groups and groups. Elements of theory of directed and undirected graphs. Boolean algebra and propositional logic. Applications of these structures to various areas of computer science.

320 Organization of Programming Languages (5)

Prereq: 240B, 300. Formal definition of programming languages including specification of syntax and semantics. Simple statements including precedence, infix, prefix, and postfix notation. Global properties of algorithmic languages including scope of declarations, storage allocation, grouping of statements, binding time of constituents, subroutines, coroutines, and tasks. List processing, string manipulation, data description, and simulation languages. Run-time representation of program and data structures.

321 Computing for Engineers and Scientists (5)

Prereq: MATH 340. Principles and practice of computer solution of problems involving extensive numerical calculations as found in physical sciences, engineering, and numerical mathematics. Not open to those with credit for 220.

350 Survey of Computer Hardware and System Software (4)

Prereq: 230 or MIS 220. Provides an overview of the architecture of computing equipment and system software (operating systems, editors, translators, file servers, etc.). Designed to provide information of the technical underpinnings upon which computer information and communications systems are built to students in business administration, communications management, etc. Course does not apply to Arts and Sciences natural sciences requirement.

361 Data Structures (5)

Prereq: 300, 240C. Basic concepts of data. Linear lists, strings, arrays, and orthogonal lists. Representation of trees and graphs. Storage systems and structures and storage allocation and collection. Multilinked structures. Symbol tables and searching techniques. Formal specification of data structures, data structures in programming languages, and generalized data management systems.

397T Computer Science Tutorial (1–15)

Prereq: HTC students only. (fall) Second-year tutorial studies in computer science.

398T Computer Science Tutorial (1–15)

Prereq: HTC students only. (winter) Second-year tutorial studies in computer science.

399T Computer Science Tutorial (1–15)

Prereq: HTC students only. (spring) Second-year tutorial studies in computer science.

404 Design and Analysis of Algorithms (5)

Prereq: 361. Correctness of algorithms. Analysis of efficiency of algorithms—recurrence relations, worst-case and best-case behavior, average-case behavior. Design of algorithms: divide-and-conquer and balancing, greedy method, graph searching, dynamic programming, backtracking, branch-and-bound, and preprocessing techniques.

406 Computation Theory (5)

Prereq: 300. Algorithms, recursive functions, Turing machines, decidability. (Same as PHIL 422.)

410 Formal Languages and Syntactic Analysis (5)

Prereq: 320, 361. Definition of formal grammars, arithmetic expressions and precedence grammars, context-free and finite-state grammars. Algorithms for syntactic analysis: recognizers, backtracking operator precedence techniques. Semantics of grammatical constructs; reductive grammars. Floyd productions, simple syntactical compilation. Relationship between formal languages and automata.

411 Concurrent Programming (5)

Prereq: 320, 361. Compares and contrasts concurrency issues in different programming languages. Remote procedure call, asynchronous buffered message passing, synchronized unbuffered message passing, and shared memory will be studied. Aims to compare and contrast the programming techniques appropriate for different communication mechanisms and to assess their relative effectiveness in different problem domains. An introduction to PetriNet and its application to designing concurrent software will be given.

412 Parallel Computing (5)

Prereq: 411. Studies different parallel structures to familiarize students with the variety of approaches to parallel computing and the strengths and weaknesses of each approach. Concentrates on understanding methods for developing parallel algorithms and analyzing their performance. The advantages and disadvantages of different methods for mapping algorithms onto several different parallel architectures will be studied. Algorithms discussed will include sorting, searching, and matrix operations.

442 Operating Systems and Computer Architecture I (5)

Prereq: 361, (340 or EE 367). In-depth coverage of computer operating systems and related computer architecture issues. Coverage of physical devices, interrupts, and communication between the computer and external hardware. Interfaces between user programs and the operating system, system calls, software interrupts, and protection issues. Context switching, process address spaces, and process scheduling. Process synchronization, interprocess communications, critical sections, and deadlock detection and recovery. Memory mapping, swapping, paging, and virtual memory.

444 Data Communications (5)

Prereq: 442. In-depth coverage of computer-to-computer and program-to-program communication over modern computer networks focusing on the TCP/IP protocol family. Review of data communication issues, physical address binding, bridging, Ethernet, and Token Ring. Internetwork protocols, routing, domains, networks, and subnetworks. Transport protocols, reliability, flow control, retransmission, and acknowledgment. Distributed systems, server and client issues including verification, and authentication. High-level protocols and applications including electronic mail, network news, remote terminal interaction, and the World Wide Web.

456 Software Design and Development (5)

Prereq: 361; 320 or EE 462. Introduction to principles and issues concerned with specification, design, implementation, and testing of high quality software. Use of tools, principles, and environments which facilitate development of large software systems. Computer project to partially develop some software product.

458 Operating Systems and Computer Architecture II (5)

Prereq: 442. Continuation of 442. Detailed discussion of virtual memory and backing stores. File system interfaces, implementation, and protection mechanisms. Process scheduling issues, policies, and mechanisms. Interprocess communication between programs on different computers. Distributed systems issues, examples, and implementation.

462 Database Systems I (5)

Prereq: 361. This is the first of a two-course sequence in database systems. The course introduces fundamental concepts in data modeling and relational database systems. It begins with ER modeling technique as a tool for conceptual database design. Relational data model and relational algebra are introduced next. Two database query languages—Tuple Relational Calculus and SQL/3—are discussed. This is followed by normalization theory and file organization and access methods.

463 Database Systems II (5)

Prereq: 442, 462. This is the second of the two-course sequence in database systems. The primary focus of the course is on relational database system implementation techniques and recent and emerging database technologies. More specifically, query processing and optimization techniques, and transaction management concepts are examined in greater depth. Objectoriented databases, distributed and multidatabases, and deductive database systems are also discussed. Emerging database technologies including spatial databases, geographic information systems, scientific and statistical databases, CAD/CAM databases, image databases, and multimedia database systems are overviewed.

464 Information Storage and Retrieval (5)

Prereq: 462. This course introduces both fundamental and advanced concepts in modern information retrieval. Approaches and algorithms for automatic indexing are discussed. File and access structures for implementing information retrieval systems are studied. Several information retrieval models are investigated in detail. Methods for quantifying retrieval effectiveness and enhancing retrieval effectiveness via user relevance feedback are examined. Hypertext/Hypermedia principles are introduced, and distributed hypermedia systems are studied.

480 Artificial Intelligence (5)

Prereq: 300. Definition of heuristic versus algorithmic methods, rationale of heuristic approach, description of cognitive processes, and approaches to mathematical invention. Objectives of work in artificial intelligence, simulation of cognitive behavior, and self-organizing systems. Heuristic programming techniques including use of list processing languages. Survey of examples from representative application areas. Mind-brain problem and nature of intelligence. Class and individual projects to illustrate basic concepts.

482 Artificial Intelligence Practicum (5)

Prereq: 480. A presentation of the basic algorithmic methods of machine learning. Students will implement one of the algorithms as a project.

483 Expert Systems (5)

Prereq: MATH 250. Foundation and development of expert systems using the CLIPS environment.

490 Special Problems in Computer Science (1-15)

Prereq: jr; 3 400-level courses below 490. Special project in 1 of various subfields of computer science or application area studied, investigated, and/or solved by individual student or small group working in close relationship with instructor. Suitable problems might include construction of compiler for special purpose artificial language, perfection of computer code to solve some significant problem, or study of coherent subfield of computer science. May be repeated for credit.

491 Senior Seminar (1)

Prereq: sr. Formal presentation by individual students of specified topics from current literature in computer science and defense of interpretations or conclusions.

492 Senior Seminar (1)

Prereq: 491. Continuation of 491. See 491 for description.

493 Senior Seminar (1)

Prereq: 492. Continuation of 491-492. See 491 for description.

496 Computer Science Internship (1-15, max 15)

Prereq: perm.

Computer Science Technology (CTCH)

The following courses for the A.A.B. in computer science technology are available only on the Lancaster campus.

125 Introduction to Computers (4)

Prereq: C or better in MATH 101. Introduces productivity software within the framework of business applications. Involves hands-on assignments including Windows, word processing, spreadsheets, presentation graphics, the Internet, and e-mail.

133 Programming and Design I (5)

Prereq: MATH 101 or higher placement. Introduction to structured design and computer programming. Students analyze, design, program, test, and debug business applications. Emphasis is on top-down logic design and modular-structured programming.

134 COBOL Programming I (5)

Prereq: MATH 101 or higher placement. Introduction to structured design and COBOL programming. Students analyze, design, program, test, and debug business applications. Emphasis is on top-down logic design and modular-structured programming.

160 Data Communications (3)

Prereq: MATH 101 or higher placement. Concepts and principles of business data communications are explored. Topics include communication media and equipment, data transmission, protocols, networks, and network management.

161 Computer Networks (4)

Prereq: MATH 101 or higher placement. Concepts and principles of computer networks are explored. Topics include uses of computer networks, network basics, building a network, network management, and network security.

162 Client Server Systems (3)

Prereq: MATH 101 or higher placement. Concepts and principles of client server systems are explored. Topics include introduction to client server computing, understanding LAN, MAN, and WAN, how to build a client server system, and client server management.

233 Programming and Design II (5)

Prereq: C or better in 133. Continuation of 133 with emphasis on array handling and file processing.

234 COBOL Programming II (5)

Prereq: C or better in 134. Continuation of 134 with emphasis on table handling and file processing.

240 C/C++ Programming (5)

Prereq: MATH 101 or higher placement. An introduction to C programming language. Students analyze, design, program, test, and debug business-related applications. Emphasis on top-down logic design and modular structured programming.

241 Visual Programming (5)

Prereq: MATH 101 or higher placement. Introduction to logic and visual programming techniques. Includes analyzing, designing, coding, testing, and debugging computer applications using visual programming.

242 Java Programming (5)

Prereq: MATH 101 or higher placement. Introduction to logic and Java programming. Includes analyzing, designing coding, testing, and debugging computer applications using Java.

285 Database Management Systems (4)

Prereq: C or better in 125. Introduction to database management systems. Focus is on applying the techniques of data base to create effective and efficient information systems.

290 Special Topics (1-5, max 10)

Prereq: perm. Provides the opportunity to explore or expand upon subjects or topics not covered or only briefly covered in other CTCH courses. Topics may vary from year to year and may include either business or scientific applications in computer science.

291A Systems Analysis I (4)

Prereq: C or better in 125. This course looks at the planning and management of information systems projects, along with tools for analysis and evaluation of alternatives.

291B Systems Analysis II (4)

Prereq: C or better in 291A. Continuation of 291A with emphasis on designing and implementing information systems, along with testing and maintenance.

299 Practicum (1-10, max 20)

Prereq: perm.

Dance (DANC)

090 Composition Laboratory (0)

This course is to be taken in conjunction with composition classes.

101A Modern Dance Technique I (3)

Prereq: perm. Introduction to basic technical skills of modern dance including alignment, strength, flexibility, rhythmic accuracy, and reproduction of a movement shape.

102A Modern Dance Technique I (3)

Prereq: perm. Continuation of 101A.

103A Modern Dance Technique I (3)

Prereq: perm. Further development of 102A.

101B Ballet Technique I (2)

Prereq: perm. Introduction to ballet and the development of basic technical skills within the classical ballet tradition. Execution of basic ballet vocabulary with an emphasis on classical line.

102B Ballet Technique I (2)

Prereq: perm. Continuation of 101B.

103B Ballet Technique I (2)

Prereq: perm. Further development of 102B.

101C Beginning Composition (2)

Prereq: perm. Exploration of movement materials through improvisation and short problems dealing with rhythm, space, movement qualities, and dynamics.

102C Beginning Composition (2)

Prereq: 101C or perm. Continuation of 101C.

103C Beginning Composition (2)

Prereq: 102C or perm. Further development of 102C.

111 Music for Dance I (2)

Prereq: perm. Nature and principles of rhythmic structure in dance and music.

120 Introduction to Dance (2)

(A) modern dance, (B) ballet, (C) jazz.

150 Viewing Performance (2)

Integrates classroom and student life activities at the university by combining the OU Artist Series and major productions of the Schools of Music, Dance, and Theater with a seminar course dealing with characteristics of the medium and artistic concerns. A two-hour seminar precedes and follows each of the performances. No credit to those with credit for CA 150, MUS 150, or THAR 150.

170 Viewing 20th-Century Dance (4) (2H)

Art of dance from broad point of view, involving dance viewing, literature, and participation. Deals with aesthetic, physiological, social, and cultural aspects.

171 The Dance Experience (4) (2H)

A comprehensive course to introduce the beginning student to contemporary and classical dance forms including modern, ballet, and jazz dance styles. Discussions and readings cover historical and aesthetic perspectives. Live performances and studio practice contribute to students' experiential learning.

201A Modern Dance Technique II (3)

Prereq: perm. Development of basic technical skills for modern dance. More complex coordinations which add more spatial and dynamic considerations.

202A Modern Dance Technique II (3)

Prereq: perm. Continuation of 201A.

203A Modern Dance Technique II (3)

Prereq: perm. Further development of 202A.

201B Ballet Technique II (2)

Prereq: perm. Expanded balletic movement vocabulary with continued emphasis on basic technical skills. Musicality will be emphasized.

202B Ballet Technique II (2)

Prereq: perm. Continuation of 201B.

203B Ballet Technique II (2)

Prereq: perm. Further development of 202B.

201C Intermediate Composition (2)

Prereq: 103C or perm. Choreographic studies to enhance the student's understanding and appreciation of the creative process by developing the concepts of rhythm, space, and dynamics into longer, more detailed studies.

202C Intermediate Composition (2)

Prereq: 201C or perm. Continuation of 201C.

203C Intermediate Composition (2)

Prereq: 202C or perm. Further development of 202C.

220 Dance Technique II (2)

Prereq: 120 or equiv. (A) modern dance, (B) ballet, (C) jazz.

231 Introduction to Dance Kinesiology (2)

Introduces student to basic anatomical materials, kinesiological concepts, and their relationship to production of dance movement.

240 Practicum in Teaching Dance I (1)

Prereq: perm. Observation and assistance in student teaching. May be repeated.

250 Ethnic Dance of Non-Western Cultures (2)

Dances from selected non-Western cultures with emphasis on style and related folklore.

255 Ethnic Dance of Western Cultures (2)

Dances from selected Western cultures with emphasis on style and related folklore.

301A Modern Dance Technique III (3)

Prereq: perm. Refinement of technical skills through more complex movement patterns. Additional emphasis on performance, phrasing, dynamics, and spatial concerns.

302A Modern Dance Technique III (3)

Prereq: perm. Continuation of 301A.

303A Modern Dance Technique III (3)

Prereq: perm. Further development of 302A.

301B Ballet Technique III (2)

Prereq: perm. Employment of technical skills through more complex balletic patterns and expanded classical vocabulary. Additional emphasis on performance, phrasing, and dynamics.

302B Ballet Technique III (2)

Prereq: perm. Continuation of 301B.

303B Ballet Technique III (2)

Prereq: perm. Further development of 302B.

301C Advanced Composition (2)

Prereq: 203C or perm. The synthesis of choreographic elements, devices, and musical or sound choices into studies having a sense of form and content.

302C Advanced Composition (2)

Prereq: 301C or perm. Continuation of 301C.

303C Advanced Composition (2)

Prereq: 301C or perm. Further development of 302C.

310 Accompaniment for Dance (2)

Prereq: 111 or perm. Basic problems in accompanying dance and analysis of dance forms related to accompaniment.

312 Music for Dance II (3)

Prereq: 111 or equiv. Also for music composition majors who wish to write for dance theater. History of music for dance. Choreographer-composer relationship.

313 Dance Notation I (3)

Prereq: perm. Principles of dance notation.

320 Dance Technique III (2)

Prereq: 220 or equiv. (A) modern dance, (B) ballet, (C) jazz.

330 Dance Movement Lab (1-3)

Prereq: perm. Addresses individual problems related to the production of movement. Means to augment physical function and expand the qualitative range of the mover are explored.

330A Pilates Reformer Training (1)

Designed to condition students using resistance training on the Universal Reformer and other Pilates apparatus. Students learn exercise principles and techniques on specialized equipment, focusing on correction of body alignment problems, muscle imbalances, strength, and flexibility.

330B Bartenieff Fundamentals (1)

Exploration and practice in a system of movement training designed to improve the functional and expressive aspects of movement.

330C Pilates Mat Training (1)

Includes laboratory practice of 45 mat exercises that train the muscles to improve body stability and mobility. The Pilates method develops precision coordination and concentration in movement while increasing strength and flexibility. Addresses injury rehabilitation from the perspective of preventive training.

331 Analysis of Dance Movement (4)

Prereq: 231. Explores skeletal alignment and deviation, muscular development and function, and mechanical efficiency in production of dance movement. Basic to course study is thorough understanding of principles of stability and motion as they relate to dance.

332 Fitness for the Whole Mover (2)

Introduces the basics of fitness in practice and theory. Strength, flexibility, aerobic conditioning, and relaxation as a part of the fitness continuum are explored through a variety of approaches to creating and attaining fitness goals.

351 Dance Cultures of the World I (4) (2C)

Introduction to dance cultures of world (excluding Western art dance). Function of dance in society and its relationship to other arts.

352 Dance Cultures of the World II (4) (2C)

Same as 351.

353 Dance Cultures of the World III (4) (2C)

Same as 351.

370 Viewing 20th Century Dance (2)

Prereq: not open to students who have had 170; jr and above. Art of dance from broad point of view, involving dance viewing, literature, and participation. Deals with aesthetic, psychological, social, and cultural aspects.

380 Practicum in Dance Production (1)

Prereq: perm. Supervised lab practice in production and/or performance. May be repeated.

385 Dance Repertory (3, max 12)

Prereq: majors only, audition, and perm. Rehearsal and performance of choreographic works taught by choreographer or reconstructors with aid of videotape, film, and/or dance scores.

401A Modern Dance Technique IV (3)

Prereq: perm. Employment of technical skill to address the more subtle demands of performance focus, projection, expressivity, and dynamic range.

401B Ballet Technique IV (2)

Prereq: perm. Employment of technical skills and performance demands within the classical ballet tradition.

402A Modern Dance Technique IV (3)

Prereq: perm. Continuation of 401A.

402B Ballet Technique IV (2)

Prereq: perm. Continuation of 401B.

403A Modern Dance Technique IV (3)

Prereq: perm. Further development of 402A.

403B Ballet Technique IV (2)

Prereq: perm. Further development of 402B.

411 Dance Notation II (3)

Prereq: 313 or perm. Continuation of 313 with more advanced reading and writing in notation.

420 Dance Technique IV (2)

Prereq: 320. (A) modern dance, (B) ballet, (C) jazz.

431 Dance Kinesiology Seminar (2)

Prereq: 331. Assists student to construct anatomically sound and functionally effective dance class.

440 Practicum in Teaching Dance II (2)

Prereq: 240 and perm. Student teaching under supervision.

441 Teaching Dance I (3)

Prereq: perm. Principles of teaching dance and their practical application. Dance for children.

442 Teaching Dance II (2)

Prereq: at least 1 qtr of 240; coreq with 440. Principles of teaching dance and their practical application. Dance for adolescents.

443 Teaching Dance III (2)

Prereq: at least 1 qtr of 240; coreq with 440. Principles of teaching dance and their practical application. Dance for adults.

460 Senior Seminar (2)

Prepares students for the field of dance and related careers. Skills in writing, networking, and oral presentation, as well as the ability to access available resources, are refined.

471 History of Dance I (4) (2H)

Development of Euro-American dance in the 20th century with focus on contemporary dance through the present.

472 History of Dance II (4) (2H)

Tribal forms: survey of dance forms and their functions. Dance motivation from sympathetic magic in tribal societies, in mythic ritual, and in dance-drama.

473 History of Dance III (4) (2H)

Development of Euro-American dance from classic times through 20th-century ballet, with emphasis on Baroque, Romantic, and Diaghilev periods.

480 Production Problems for Dance Theater (2-4, max 4)

Prereq: perm. Includes choreography, performance, and production aspects of senior projects and other dance events.

488 Dance Choreography and Video Techniques (2)

Prereq: perm. Designed to increase awareness of the possibilities of video in dance, both as a recording tool and a creative tool. The basics of video production and digital editing will be introduced in order for dance choreographers to become familiar with video technology applicable to dance.

490 Independent Study (1-10)

Prereq: perm.

494 Internship (1-16)

Prereq: perm. Provides credit for internship experience in which some dance majors may participate. Internship allows individual to gain actual experience in field of dance and related areas, e.g., apprentice/performing, technical production, arts administration.

Deaf Studies and Interpreting (DSI)

The following courses for the proposed A.A.S. in deaf studies and interpreting are available only on the Chillicothe campus.

111 Sign Language and Deaf Culture I (4)

Different types of deaf and the different languages utilized by each. Includes signing paragraphs, using ASL, PIDGIN, and SEE, studying culture, and participating in short community-based research projects.

112 Sign Language and Deaf Culture II (4)

Prereq: 111. Continuation from 111 of deaf languages and culture. Includes more than 300 additional signs, continuing to use ASL, PIDGIN, and SEE, reverse interpreting paragraphs, and studying idioms and slang terms.

113 Sign Language and Deaf Culture III (4)

Prereq: 112. Continuation from 112 of deaf languages and culture. Includes additional signs, continuing to use ASL, PIDGIN, and SEE, further reverse interpreting of paragraphs, and translating idiom and slang paragraphs. Discusses deaf in mental institutions, prisons, and the court system. Students interpret for university functions and programs.

120 Introduction to Deaf Studies and Interpreting (1)

First of three assessments in deaf studies and interpreting degree program, evaluating knowledge of various sign languages used, types of deaf people using each of the sign languages, cultural aspects of deafness, speed in signing, comprehension speed, and interpreting and reverse interpreting skills. Offers basic introduction to knowledge and skills required for successful completion of the degree. Covers history of interpreting, career opportunities, ethical considerations, and includes discussion of program courses, seminar paper, and second and third assessments.

161 Orientation to Deafness (3)

Broad overview of field of deafness, focusing on education perspectives, psychosocial precepts, communication modes, vocational opportunities, support services, and recent technological advances. Benefits parents, educators, vocational rehabilitation counselors, interpreters, and other professionals who come into contact with the deaf and hearing impaired community.

191 Interpreting as a Profession (1)

Prereq: 120. Second of three assessments in deaf studies and interpreting degree program, requiring 50%-60% improvement from 120 in speed in signing, knowledge of culture, and interpreting and reverse interpreting skills. Includes introduction to practicums, professionalism of interpreting (dress, demeanor, professional organizations), national certification, and ethics of the profession and their impact on personal views.

211 Sign Language and Deaf Culture IV (4)

Prereq: 113. Additional signs and advanced usage of previous signs from first-year sequence. Includes interpreting for university functions, community meetings, and business situations.

212 Sign Language and Deaf Culture V (4)

Prereq: 211. Signs beyond 211 and a larger role in interpreting situations. Additional cultural information (family relationships, sexual relationships, and more) enhances abilities to work with and for the deaf in any context.

213 Sign Language and Deaf Culture VI (4)

Prereq: 212. Signs beyond 212 and specific interpreting within community. Includes cultural information such as family dynamics, time orientation within mental health situations, and ethics for interpreting. Covers sexual signs, regional signs, and idioms specific to area.

221 Practicum I (2)

Prereq: advanced standing, perm. Opportunity to work in teaching, training, and/or interpreting situations under supervision. Provides experience in program development and deals with professionalism in interpreting. May include student-teaching sign language classes within community and businesses, observation of professional interpreters, and critiques of videotaped interpreting situations.

222 Medical Personnel and the Deaf (4)

For those in the emergency care field or studying to be an interpreter. Covers 150 essential signs for immediate communication, different types of deaf, different sign languages, working with deaf family members, legal issues for hospitals and nursing homes, sexual signs involved in rape cases and abuse, cultural issues working with male/female deaf, and more.

224 Interpreters and Interpreting (3)

World of interpreting for the deaf, including detailed code of ethics and responsibilities imposed on those who interpret in all fields: platform interpreting, educational interpreting, medical interpreting, religious interpreting, etc. Discusses interpreter role within the courtroom, including the interpreter oath and its significance to the court, the interpreter, and the deaf.

226 Practicum II (2)

Prereq: advanced standing, 221. Opportunity to interpret for the deaf without immediate supervision, extending knowledge of interpreting in specific contexts. Ability to work within community is enhanced through responsibility for teaching basic sign language classes and through critiques of videotaped interpreting situations.

260 Critical and Traumatic Situations (3)

Sexual abuse of deaf children, including causes, incident rate, interviewing techniques, investigation problems, and involvement of law enforcement agencies, schools, hospitals, DARE, and crime prevention programs. Also discusses deaf in disaster situations, emergency response centers, first responders, and problems of victimization of deaf in research projects.

286 Study of Deaf Culture (3)

Sociocultural aspects of deafness, addressing issues of deaf communities such as leadership roles, political activity, and organization. Examines the functioning of deaf within social institutions.

288 Seminar in Deaf Studies (2)

Prereq: advanced standing, perm. Scholarly paper of no less than 50 pages is required for completion of the associate's degree in deaf studies and interpreting. Involves choosing research topic related to field of work, and engaging in library research, interviews, questionnaires, and other forms of inquiry.

291 The Professional Interpreter (1)

Prereq: 191. Third and final assessment in deaf studies and interpreting degree program, serving as a capstone. Requires 45%-50% improvement from 191 and the ability to interpret effectively in any situation for any of the three types of deaf. Covers introduction to Web sites regarding deaf, resume preparation for job interviews (including role plays), discussion and evaluation of past and current assessments, and in-depth review of ethics of interpreting and the Americans with Disabilities Act.

298A-E Special Topics (1-4, max 12)

Opportunity to explore topics related to deaf studies either on an individual basis or in a structured course.

Design Technology (DTCH)

The following courses are available only on the Lancaster campus.

100 Introduction to Industrial Technology (3)

Overview of design and manufacturing options. Topics include machining, welding, steel production, quality control, interrelation of processes, design concepts, materials, mechanisms, and structures. Plant tours, lab work, and projects involved. Recommended for students having little or no background in mechanical design or manufacturing. 2 lec, 2 lab.

150 Computer Aided Drawing (3)

Prereq: IT 101 or perm. Introduction to use of computers for making engineering drawings. Uses software for personal computers to create multiview drawings of machine parts and other projects selected by student. No computer background required. 6 lab.

200 Engineering Mechanics I (4)

Prereq: MATH 115 or perm. Basic statics and dynamics. Coverage includes vectors, Newton's laws, trusses, frames and machines, friction, moments of inertia, particle kinematics and kinetics, work-energy, impulse-momentum. 4 lec.

210 Engineering Mechanics II (4)

Prereq: 200 or perm. Introduction to strength of materials. Axial, torsional, and flexural loadings; plane stresses; beams; columns; deflections; statically indeterminate systems; testing methods. 3 lec, 2 lab.

220 Machine Design (3)

Prereq: 210 or perm. Design of machine elements. Shafts, brakes, clutches, belts, couplings, bearings, springs, gears, fasteners, splines, and keys. Stresses in machine parts, materials applications. 3 lec.

240 Mechanisms (4)

Prereq: 200 or IT 121, or perm. Design and analysis of simple mechanisms. Kinematics and kinetics of rigid bodies, graphical analysis of force, velocity and acceleration problems, linkages, instantaneous centers, gear trains, cams, rolling contact. 1 lec, 6 lab.

250 Structural Design (4)

Prereq: 210 or perm. Design of structural components in buildings. Foundations, connections, materials selection, use of industry standards. 1 lec, 6 lab.

299 Special Problems (1-3, max 6)

Prereq: perm. Individual projects or internship experiences under direction of faculty member in design option.

Ecology

See Biological Sciences or Environmental and Plant Biology.

Economics (ECON)**103 Principles of Microeconomics (4) (25)**

Prereq: MATH 101 or higher math placement. Basic theory and economic analysis of prices, markets, production, wages, interest, rent, and profits. Analysis of how the capitalistic system determines what, how, and for whom to produce.

104 Principles of Macroeconomics (4) (25)

Prereq: 103 and MATH 101 or higher math placement. Basic theory of national income analysis. Causes of unemployment and inflation. Monetary and fiscal policies of the federal government.

213 Current Economic Problems (4)

Prereq: 103 and 104. Application of economic theory to current economic problems with emphasis on public policy implications.

300 Mathematics for Economists (4)

Prereq: 103 and 104 and perm. Mathematical analysis in economics. Calculus and matrix algebra techniques used prominently in economics literature, together with their application to selected problems in economics.

303 Microeconomics (4)

Prereq: 103 and 104. Price system as allocative mechanism. Price and production policies of individual firms and consumers under alternative market conditions and analysis of these policies on social efficiency of resource allocation. Students expected to have understanding of elementary algebra and geometry.

304 Macroeconomics (4)

Prereq: 104, jr; soph if major. Factors determining level of nation's economic activity and responsible for growth and stability in nation's economy. Part of course devoted to measures of national income while remainder consists of analysis of interrelationships among production, price levels, relative prices, employment, and capital formation. Students expected to have understanding of elementary algebra and geometry.

305 Managerial Economics (4)

Prereq: 103, QBA 201, and MATH 163A. Analysis of decision making in enterprise; market environment; measurement of influence of policy and nonpolicy variables on sales and costs; sales, cost, and profit forecasting; empirical studies of market structure and pricing; includes regression analysis.

307 History of Economic Thought (4)

Prereq: 103 and 104. Evolution of major economic doctrines: mercantilists, physiocrats, Adam Smith and classical school. May also cover historical school, Austrian school, Alfred Marshall and neoclassicists.

312 Economics of Poverty (4)

Prereq: 103 and 104. Incidence, causes, and consequence of poverty in affluent society. Economic theory, history, statistics applied to analysis of poverty-reduction measures.

313 Economics of the Environment (4)

Prereq: 103. Economic analysis of such environmental matters as air, water, and noise pollution, population growth, and land use. Emphasis placed on use of economic theory and empirical research in evaluating environmental policies.

314 Natural Resource Economics (4)

Prereq: 103, MATH 163A. Explores the economic aspects involved in the extraction and utilization of both renewable and nonrenewable natural resources. Topics include the economics of oil and mineral extraction, groundwater use, agricultural practices, forestry, and fisheries. It also examines the allocation of property rights and economic benefits and costs of natural resource use.

315 Economics of Health Care (4)

Prereq: 103 and 104. Demand for medical care, supply behavior of profit and nonprofit agencies, market structure, adverse selection, public and private health insurance.

316 Economics and the Law (4)

Prereq: 303 or 305 or perm. Major topics are property, contracts, and torts. Class time is divided between economic analysis of these topics in the abstract and actual legal cases that involve these topics.

320 Labor Economics (4)

Prereq: 103 and 104. The role of the labor market in wage and employment determination, the distribution of income, and economic discrimination.

322 Economics of Human Resources (4)

Prereq: 103 and 104. Current developments in theory, empirical research, and policy with respect to investment in human resources, economic value of education, manpower programs, and growth.

332 Industrial Organization (4)

Prereq: 303 or 305. Market structures, market conduct, and social performance of industries. Emphasis upon firms' strategic behavior in price and nonprice competition. Topics include oligopolistic pricing, strategic entry deterrence, location strategies, product quality, advertising, and research and development. Economic welfare implications of firms' behavior examined.

334 Economics of Antitrust Law (4)

Prereq: 303 or 305. Explores the economic behavior of the firm subject to antitrust laws. Topics include collusion, price discrimination, vertical restraints, and other behavior where the intent may be to monopolize a market. Also examines institutional incentives and economic benefits and costs of antitrust laws.

335 Economics of Energy (4)

Prereq: 103. Applies economic theory to analyzing public policy issues regarding energy production and use—including such topics as price controls, import dependency, conservation, supply outlook, and industry concentration.

337 Government Regulation of Business (4)

Prereq: 303 or 305 or perm. Why does the government regulate business? Reasons include the inefficiencies of market power, considerations of fairness, excessive competition, natural monopoly, externalities, and reducing transactions costs.

340 International Trade (4)

Prereq: 103. International trade patterns, theories of absolute and comparative advantage, classical and modern trade theory, tariffs, quotas, nontariff barriers, preferential trading arrangements.

341 International Monetary Systems (4)

Prereq: 104. How exchange rates are determined, fixed vs. flexible rates, government intervention, fiscal and monetary policy in open economy, transmission of inflation and unemployment among nations, international capital movements, covered interest arbitrage, forward exchange, Euro-currency markets.

342 International Economic Policy (4)

Prereq: 340 or 340. Current economic developments of foreign and U.S. economic policy. Commercial treaties and tariff policy; exchange rate instability; balance of payments problems including LDC debt situation; international liquidity issues; trade relations among industrial, underdeveloped, and Soviet-bloc countries; multinational corporations; roles of institutions such as World Bank, International Monetary Fund, and GATT.

350 Economic Development (4)

Prereq: 103 and 104. Nature of, obstacles to, and future possibilities for economic growth of nations. Special emphasis given to problems of underdeveloped countries. Studies of selected countries.

351 Agricultural Development (4)

Prereq: 103 and 104. Patterns of agricultural development: technological and demographic changes in agriculture; socioeconomic problems; marketing arrangements; case studies of specific agricultural development projects.

352 Economic History of the United States (4)

Prereq: 103 and 104. Economic factors in development of U.S. including historical growth of economic institutions such as banking, manufacturing, labor unions, and agriculture, from colonial times to present.

353 European Economic History (4)

Prereq: 103 and 104. Economic growth of developed countries. Focus on industrial revolutions in Great Britain, France, Germany, and the former Soviet Union. Historical experience of these countries related to various theories of economic change.

360 Money and Banking (4)

Prereq: 104. Role of money and banking system in determination of national income and output. Monetary theory and policy emphasized.

370 Comparative Economic Systems (4)

Prereq: 103 and 104. Theoretical and institutional characteristics of capitalism and socialism with specific emphasis on prevailing economic systems in U.S., Great Britain, and the former Soviet Union.

381 Introduction to Economic Statistics and Econometrics (4)

Prereq: 103 and 104. Statistical methods are developed within an economic context. Fundamental statistical topics include descriptive statistics, basic probability theory, random variables, sampling, estimation, and hypothesis testing.

385 An Introduction to Economic Methodology and Research (4)

Prereq: 303 (or 305), 304, 381, or equiv. Methods used by economists in investigation of economic problems. First part involves research methods, including contemporary statistical estimation techniques. Second part applies these techniques to investigation of economic phenomena. Types of application include construction and testing of simple econometric model, estimation of production functions, evaluating theories of factor pricing, estimating social costs of pollution, etc.

406 Monetary Theory and Policy (4)

Prereq: 303 (or 305) and 304. Emphasis on monetary economics. Money demand and supply theory and policies for minimizing cyclical fluctuations in economic activity.

425 Public Policy Economics (4)

Prereq: 104. Survey of economic approach to analyzing public policy issues. Uses concepts of welfare economics, public choice economics, and cost-benefit analysis, as applied to sample of policy subjects.

430 Public Finance (4)

Prereq: 303 or 305 or perm. Role played by government as user of economic resources and redistributor of incomes. Some questions explored: need for government's entry into economy, optimal size of government, selection of tax and expenditures schemes, and effects of government economic activity on private sector.

431 Economics of Transportation (4)

Prereq: 303 or 305. Economics of transport pricing; regulations of transport and national transport policy.

444 Futures Markets (4)

Prereq: 360 or FIN 327 or perm. Contracts, trading, institutions, and strategies, including hedging and speculation. No credit if FIN 444 taken.

455 African Economic Development (4)

Prereq: 350 or perm. Economic characteristics of African societies as traditional economies and in process of modernization.

473 Economics of Southeast Asia (4)

Prereq: 350 or perm. Economic characteristics, development problems, strategies, and prospects of countries of Southeast Asia.

474 Economics of Latin America (4)

Prereq: 350 or perm. Economics of Latin American countries, prospects for economic development of the region, nature and origin of institutional obstacles to economic change. Economic heritage of colonial period and subsequent evolution of economic institutions, resources of the area and utilization, and trends in economic activity and policy in post-WWII period.

482 Topics in Econometrics (4)

Prereq: 303 or 305, 381, MATH 163A or calculus, or perm. Basic linear regression models are explored within an econometric context. Simple and multiple linear regression models are introduced under classical assumptions and developed in relation to heteroskedasticity, autocorrelation, multicollinearity, and specification errors. Models with binary regressors, models with qualitative dependent variables, and the simultaneous equations model are introduced. Computer assignments provide experience in empirical social science research.

491 Seminar (3-5)

Prereq: perm. Selected topics of current interest in economics area.

493 Readings (1-15)

Prereq: perm. Readings in selected fields of economics. Topics selected by student in consultation with faculty member.

493X Readings (1-15)

Prereq: perm. Study abroad.

495 Research (3-5)

Methodology, analysis of data, and preparation of research findings.

497 Independent Research (1-15)

Prereq: perm. Research in selected fields of economics under direction of faculty member.

Education

All programs and courses in the College of Education satisfy the standards of the Ohio State Department of Education and NCATE. Consult your advisor regarding program requirements and scheduling. In particular, note that some pairs or groups of professional education courses must be taken concurrently. Address questions to Student Services, McCracken Hall 124.

Each course in education may be taken no more than twice.

Counselor Education (EDCE)**201 Career and Life Planning Seminar (3)**

Designed to provide knowledge and skill in career and life planning for fr and sophs, especially for those who are undecided about college major and career. Emphasis on identifying strengths, clarifying values, exploring career options, and in developing decision-making skills. Special section for Adult Learning Services students only: designed to provide knowledge and skill in career and life planning especially for adult who is considering job or career change. Emphasis on identifying skills, interests, experience, and values in relationship to new career choices and options.

203 Credit for Work Experience: Portfolio Development (4)

Prereq: ENG 151, 152, or 153; perm from Adult Learning Services. Seminar designed to assist adult students in clarifying career, personal, and educational goals with emphasis on documenting college-level learning from prior experience and documenting this learning for assessment.

400 Special Topics in Guidance, Counseling, and Student Personnel (1-5)

Prereq: perm. Independent studies, specialized projects, and seminars on following special topics: alcohol and substance abuse; biofeedback, self-control, and management of stress; marriage and family issues; assertiveness; human sexuality; and Adlerian theory, method, and research (may be repeated for max of 18 hrs).

410 Human Relations (3)

Prereq: jr. Study and practice of developing healthy and mutually satisfying interpersonal relationships. Lecture and discussion groups focus on dynamics of human relationships, factors fostering effective interaction, and significance of self concepts in human communication. Topical headings include value clarification, games people play, self disclosure and trust, conflict resolution, sexuality, prejudice, death and dying, multicultural education, sexism, constructive use of anger, etc.

420 Guidance Practices in Elementary Schools (4)

Need, scope, and nature of elementary guidance surveyed. Guidance approaches and procedures examined for their usefulness in working with children and parents. Roles of elementary school counselor and other pupil personnel specialists reviewed for their contribution to growth and development of children. Opportunity for students to achieve greater self-understanding through involvement in self-appraisal.

430 Guidance in American Secondary Schools (4)

Same as 420 but pertains to secondary schools.

440 Foundations in Group Dynamics (4)

General principles and basic techniques of group dynamics. Interaction in human relations situations that occur in agency settings, business, classrooms, community, resident living, and various types of professionally led training, counseling, and growth groups. Through both cognitive and affective learning opportunities, students learn to understand and use group dynamics principles in areas of personal and professional interaction. Students attend weekly cognitive seminars as well as participate in ongoing group lab.

Curriculum and Instruction (EDCI)**101 Democracy and Education (4)**

Prereq: admission to CARE program. Coreq: 101L. An introduction to the unique role American public schools play in preparing citizens for democracy. Particular attention will be paid to the role of the teacher in the process, as well as to historical and sociological precedents.

101L Democracy and Education: Field Experience (2)

Prereq: admission to CARE program. Coreq: 101. Field experiences to complement EDCI 101 Democracy and Education. Will involve several school placements at differing classroom levels to promote comparison and analysis.

200 Learning, Human Growth, and Development (6)

Prereq: PSY 101, INCO 103, admission to Professional Education. Coreq: 201, 202. Provides a general knowledge about human learning as it relates to the life cycle from birth to young adulthood. Designed to provide preservice teachers with a fundamental knowledge of human growth and development (physical, social, affective, and cognitive) and theories of learning.

201 Characteristics of Learners with Exceptionalities (3)

Prereq: PSY 101, INCO 103, admission to Professional Education. Coreq: 201, 202. Covers a range of topics in the special education process, including identification, referral, assessment procedures, service delivery options, parental involvement, the law and legal issues, supports for inclusion, roles of agency and related service personnel, and characteristics of all types of learners with exceptionalities, including gifted, from preschool through young adulthood.

201ABC Childhood in America (4)

Prereq: 101. Introduces students to children and their characteristics at various levels of development. Students are also introduced to and encouraged to examine factors that influence children's learning in the schools, such as families, neighborhoods, race, culture, gender, and socioeconomic status. Students examine values and belief systems of themselves and children, as well as identify elements of successful parenting.

202 Field Experience in Education (2)

Prereq: PSY 101, INCO 103, admission to Professional Education. Coreq: 201, 202. Students apply principles of typical child development, learned in 200, and exceptional development of children and youth, learned in 201, as they observe, assist, adapt tests and lessons, and tutor a diverse range of pupils in a field setting.

203 Technological Applications in Education (4)

Prereq: PSY 101, INCO 103, admission to Professional Education. Focuses on the use of technology to increase the effectiveness, efficiency, and appeal of instruction to diverse learners. Major emphasis is given to instructional computing for production and presentation.

210 Introduction to Teaching in a Democratic Classroom (4)

Prereq: 101. Coreq: 210L. The purpose of this course is to identify the characteristics of a democratic classroom and to develop student skill in the creation of a democratic learning environment. Students examine a variety of teaching models including explicit teaching and cooperative learning, and begin to develop competence in their use.

210L Introduction to Teaching in a Democratic Classroom Field Experience (2)

Prereq: 101. Coreq: 210. This practicum accompanies EDCI 210 and provides students with field experience in the classroom. Classroom assignments include observation, tutoring, small-group instruction, and other appropriate preservice experiences.

220 Phonics and the Structure of Language (5)

Prereq: admission to professional education. Course provides information and training in the foundations of phonics instruction. It explores the historical, linguistic, and instructional framework related to phonics skill development.

301 Education and Cultural Diversity (3)

Prereq: PSY 101, INCO 103, admission to Professional Education. Requires students to observe, analyze, and reflect upon the advantages and problems associated with teaching in a culturally diverse environment. Students study the influences of cultural diversity on education in the United States and develop the skills and attitudes that help them adjust curriculum and instruction to culturally diverse groups.

310 Advanced Methods for the Democratic Classroom (4)

Prereq: admission to CARE program and 210. Coreq: 310L. In-depth exploration of several teaching methods utilized in progressive, democratic classrooms. Builds on introduction to these methods in EDCI 210.

310L Advanced Methods for the Democratic Classroom Lab (2)

Prereq: admission to CARE program. Coreq: 310. Field experience utilizing methods gained in EDCI 310.

325 Literature-Centered Developmental Reading Instruction (5)

Prereq: 220, admission to adv standing. *D. Leal, S. Rebottini, W. Smith.* Provides preparation for teaching of developmental reading in the middle school. The course emphasizes a literature-centered approach to the teaching of reading and emphasizes the development of proficient reading through a stage model of reading. Text and supplementary readings, lecture, demonstration, discussion, multimedia resources, observations and participation in schools, and projects for practical competence are all part of the class procedures.

331J Educational Research Techniques and Writing (4) (1J)

Prereq: jr. *Staff.* Concentration upon communication skills of reading, writing, and speaking, utilizing educational writings dealing with history of education, philosophy, psychology, sociology, and current issues. Development of critical reading, effective writing, and speaking skills.

360 Field Experience in Elementary or Secondary Schools (2)

Prereq: student teaching placement confirmed. Pre-student teaching experience providing observation and participation in the classroom in which student teaching will occur the following quarter. Prepares the pre-student teacher to begin student teaching immediately upon entering the student teaching experience.

371A Instructional Adaptations for Learners with Exceptionalities and Diverse Needs (3)

Prereq: 200, 201, 202. Designed to develop skills needed by educators at the elementary and middle levels to work with learners with exceptionalities and diverse needs in inclusive classrooms. Content includes curriculum modifications, instructional and management adaptations, effective collaboration strategies, accessing related and support services, and skills required for instructing in and managing an inclusive classroom.

371B Instructional Adaptations for Learners with Exceptionalities and Diverse Needs—Secondary (4)

Prereq: admission to adv standing. This course and clinical/field experience are designed to develop skills needed by educators at the adolescent to young adult level in order to work with learners who have exceptionalities and diverse needs in inclusive classrooms. Content includes curriculum modifications, selection and appropriate uses of reading materials, instructional and reading adaptations, classroom management adaptations, effective collaboration strategies, accessing related and support services, and skills required for instructing and managing an inclusive classroom.

400 School, Society, and the Professional Educator (4)

Studies the social, philosophical, ideological, and historical foundations of K–12 education in the United States as they apply to both practical and theoretical issues for the professional educator. Four questions guide inquiries into the foundations of education: Why do we educate? For whom is education intended and designed? What are the personal, social, and cultural effects of education? Who bears the institutional responsibility for education?

420 Teaching Reading in the Content Area (5)

Prereq: admission to adv standing. Materials, methods, and techniques for teaching adolescent learners of various abilities. Emphasis on diagnosis of reading difficulties and adaptation of materials and teaching methods for content area instruction. Lab included as part of the lecture class.

421 Foundations of Reading Instruction, Diagnosis, and Remediation for Classroom Teachers (4)

Prereq: 220, admission to adv standing. *D. Leal, S. Rebottini, W. Smith.* Designed to provide classroom teachers a theoretical and practical understanding of the foundations of reading instruction, diagnosis, and remediation. An exploration of these foundations as they affect a wide diversity of students. Includes practical hands-on opportunities for evaluating, assessing, and remediating one student's reading ability.

461 Introduction to Individualization of Education (4)

Prereq: perm. *M. Johnson.* Broad objective of course is for each participant to develop knowledge of major concepts for individualization of education and to demonstrate this knowledge through creation of instructional package ready for implementation in classroom setting. Course focus is to facilitate study of major components necessary for teacher to implement individualized instruction in classroom.

465 Introduction to Teaching the Talented and Gifted (4)

A. Leep. Provides introduction to rationale, scope, and nature of concerns relative to education of gifted youth. Attention given to overview of problems and issues; including (A) societal factors that influence programs, (B) characteristics and identification of gifted youths, and (C) current and recommended programs.

492 Workshop in Curriculum and Instruction (0.5–15)

Prereq: perm. *Staff.* Designed to provide practicing teachers and other instructional personnel with in-service education directed toward their identified needs. Facilitates offering of short courses, work-shops, and summer institutes. Areas of concentration currently available: (A) Language Arts, (B) Social Studies, (C) Science, (D) Mathematics, (E) Reading, (F) Kindergarten, (G) Individualizing Instruction, (H) Team Teaching, (I) Interaction Analysis, (J) Developing Behavioral Objectives, (K) Curriculum Development, (L) Interdisciplinary Topics, (M) Special Topics, (N) Special Education Topics, (O) Supervision of Instruction, (P) Education for Gifted.

492K Workshop in Curriculum and Instruction (2)

Prereq: 101, 210, 310. An in-depth examination and synthesis of information learned in both special CARE classes and in general education classes with emphasis on how this information can be used in the classroom and integrated into the future teacher's teaching strategies.

Economic Education (ECED)**346 Economics in the Curriculum (4)**

Rader. For teacher-education students, provides study of (A) fundamental economic concepts, (B) methods of inquiry employed by economists, and (C) relationship of economics content to classroom instruction and instructional materials. Not recommended for students who have completed ECON 103 and 104.

491 Seminar (3–5)

Prereq: perm. Selected topics of current interest in economic education.

492 Research (3–5)

Prereq: perm. Methodology, analysis of data, and preparation of research findings.

493 Readings (1–15)

Prereq: perm. Readings in selected areas of economic education.

497 Independent Research (1–15)

Prereq: perm. Research in selected fields of economic education under direction of faculty member.

498 Internship (1–15)

Prereq: perm. Individual projects under faculty supervision. May be repeated to a maximum of 15 hours.

Educational Administration (EDAD)**452 Problems in Administration of Education (1–4)**

Prereq: perm. Variable topic course for independent study, institutes, and workshops.

Educational Media (EDM)**201 Use of Library Resources I (3)**

J. McCutcheon, S. Roberts. Designed to acquaint student with resources available in academic library. Students learn to analyze information needs and to develop systematic approach toward solution.

397T Media Tutorial (1–15)

Prereq: Honors Tutorial College and perm.

Elementary Education (EDEL)**306 Kindergarten Theory and Methods (6)**

Prereq: adv standing. *J. McMath.* Combines evolving theory of education in kindergarten with selection and uses of learning materials through lab practice and participation experiences in local schools.

310 Teaching the Language Arts in the Elementary School (3)

Prereq: adv standing. Coreq: 310L. *D. Leal, W. Smith.* Methods course in teaching areas of language arts other than developmental reading. Treats basic information in language development, oral and written language activities, spelling, penmanship, grammar, usage, poetry and drama, language arts organization and management, and evaluation and remediation techniques in language arts areas.

310L Teaching the Language Arts Field and Clinical Experience (2)

Prereq: adv standing. Coreq: 310. *D. Leal, W. Smith.* Field/clinical component for 310. Designed to give elementary education majors practical field and clinical experiences in public schools and is complementary to theory presented in 310.

311 Teaching of Reading in the Elementary School (4)

Prereq: adv standing in Ed. and 310. 310L. Coreq: 311L. *D. Leal, S. Rebottini, W. Smith.* Preservice preparation for teaching of developmental reading, K–6; text and supplementary readings; lecture, demonstration, and discussion; multimedia resources; observations and participation in schools; projects for practical competence.

311L Teaching of Reading in the Elementary School Field/Clinical (1)

Prereq: adv standing in Ed. Coreq: 311. *D. Leal, S. Rebottini, W. Smith.* Field/clinical component to accompany 311. Gives elementary education majors practical field and clinical experiences in public schools and is complementary to theory presented in 311.

321 Children's Literature (3)

Prereq: adv standing in Ed. Coreq: 321L. *D. Leal, J. McMath.* Treats body of literature, by genre, appropriate for children from preschool through middle-school age and various techniques for utilizing children's literature in school setting.

321L Children's Literature—Field/Clinical (1)

Prereq: adv standing in Ed. Coreq: 321. *J. McMath, R. Pinney.* Field component for 321. Same as above.

330 Teaching Mathematics in the Elementary School—Kindergarten through Grade 3 (2)

Prereq: adv standing in teacher education and MATH 120–121–122 or equiv. Coreq: 330L. *B. Beach, C. Smith.* Examination of methods and materials used in teaching of mathematics in elementary school programs. Special emphasis on use of mathematical models, adjusting instruction for individual pupil growth, and diagnosing learning difficulties in lower elementary school (K–grade 3).

330L Teaching Mathematics in the Elementary School—Kindergarten through Grade 3—Field/Clinical (1)

Prereq: adv standing in teacher education. Coreq: 330. *B. Beach, C. Smith.* Students will observe and teach mathematics lessons in elementary school under supervision of course instructor. Proficiency in use of mathematical models and manipulative teaching aids demonstrated by each student in mathematics education lab. Field experiences will take place in primary (K–grade 3) classroom.

331 Teaching Mathematics in the Elementary School—Grades 4–8 (2)

Prereq: 330. Coreq: 331L. *B. Beach, C. Smith.* Examination of methods and materials used in teaching of mathematics in elementary school programs. Special emphasis on use of mathematical models, adjusting instruction for individual pupil growth, and diagnosing learning difficulties in upper elementary school (grades 4–8). Continuation of 330.

331L Teaching Mathematics in the Elementary School—Grades 4 through 8—Field/Clinical (1)

Coreq: 331. *B. Beach, C. Smith.* Students observe and teach mathematics lessons in elementary school under supervision of course instructor. Proficiency in use of mathematical models and manipulative teaching aids demonstrated by each student in mathematics education lab. Field experiences will take place in upper-grade-level classroom (grades 4–8).

340 Teaching of Science in the Elementary School (4)

Prereq: adv standing in teacher education; 12 hrs of science; completion of one course in each of the following science areas: Life, Physical, Earth. Coreq: 340L. *R. Martin.* Emphasis on constructivist science teaching through hands-on inquiring processes. National Standards examined and applied. Science equipment, instructional resources and technology, and safety procedures emphasized.

340L Teaching Science in the Elementary School—Field/Clinical (1)

Prereq: adv standing in teacher education; 12 hrs of science; completion of one course in each of the following science areas: Life, Physical, Earth. Coreq: 340. *R. Martin.* Practice teaching elementary science lessons in an approved setting.

350 Teaching of Social Studies in the Elementary School (3)

Prereq: 12 hrs of social science including GEOG 121, adv. standing in teacher education. Coreq: 350L. Materials and methods in teaching social studies in elementary schools. Special emphasis on practical experience in preparation and teaching of units.

350L Teaching of Social Studies in the Elementary School—Field/Clinical (1)

Prereq: 12 hrs of social science including GEOG 121, adv. standing in teacher education. Coreq: 350. Field/clinical component to accompany 350. Gives elementary education majors practical field and clinical experiences in public schools and is complementary to theory presented in 350.

372 Managing an Elementary School Classroom (2)

Prereq: adv standing in teacher education. *B. Beach, S. Rebottini, W. Smith, staff.* Provides preservice teacher with knowledge and skills to manage records, learning environment, and pupils within elementary school learning setting (e.g., classroom, playground, etc.).

411 Diagnosis and Treatment of Reading Disabilities (4)

Prereq: 311/311L or EDSE 420. *S. Rebottini, W. Smith.* Correlates of variability in reading proficiency. Incidence of retardation and disability. Proposed causes of failure and concept of multiple causation. Specialized materials and instructional efforts. Systematic observation of cases of reading disability and preparation of case report.

412 Reading Laboratory Practicum (4, max 12)

Prereq: sr, 411. *S. Rebottini, W. Smith.* Application of developmental approach to problem cases in reading instruction, participation in diagnostic examination, parent and teacher conferences, individual procedures in tutoring, staffing of cases, and preparation of report (weekly group discussion period, lab sessions arranged).

430 Modern Elementary Mathematics Curriculum (3)

Prereq: 330, 330L, 331, 331L. *B. Beach, C. Smith.* Modern elementary mathematics curriculum with emphasis on why changes are occurring. Nature of changes as reflected from experimental programs, effect of changes on methods of teaching, implementation of these changes in the classroom.

490 Study in Elementary Education (1–5, max 15)

Prereq: perm of dept chair. *Staff.* Independent and/or group study of some special interest and concern (problems, area, questions) under guidance of staff; assigned and suggested readings and other resources and experiences; frequent conferences; preparation of final report.

International and Comparative Education (EDIC)**205 Learning from Non-Western Cultures (4)**

Prereq: soph or perm. *W.S. Howard.* Exploration of alternative “ways of seeing” and “ways of knowing,” esp. in cultures of the non-Western world (i.e., Africa, Asia, Latin America). Building skills in personal investigations of life and learning in other cultures.

420 Comparative Cultures and Education (4)

Prereq: perm. *W.S. Howard.* Emphasis on distinctive cultural, economic, and political forces which shape patterns, problems, and roles of education in some selected developed and developing nations. These include U.S., some European countries, and at least one African and/or Asian nation where former or present Western culture has impact. Assessment of this impact especially on educational developments.

425A Education and Development in Africa (4)

Prereq: perm. *W.S. Howard.* Interdisciplinary course focusing on tradition and change in African societies, problems of political independence, economic development, cultural values in transition, tribalism and nationalism, and role of Africa in world peace and international cooperation. Tradition and change in African education, landmarks in African educational developments, and role of education in economic and technological development. Issues and problems in African education.

425B Education and Development in Asia (4)
Prereq: perm. *W.S. Howard*. Same emphasis as 425A on tradition and change in society, culture, and education, and role of education in national development and international understanding; discussion of pertinent educational issues and problems.

425C Education and Development in Latin America (4)

Prereq: perm. *W.S. Howard*. Same emphasis as 425A–425B on tradition and change in society, culture, and education, and role of education in national development and international understanding; discussion of pertinent educational issues and problems.

450 Teaching Strategies for Cultural and International Understanding (4)

Prereq: sr, perm. *Staff*. Psychological and sociological foundations of cultural values and ways of life investigated. Strategies for developing cross-cultural understanding and cooperation studied. Emphasis on innovative approaches to learning for elementary and secondary school pupils.

Middle Childhood Education (EDMC)

300 Middle Childhood Instructional Process and Curriculum (4)

Prereq: admission to adv standing. *R. Romano*. Furthers understanding of the middle child and the middle school. Lecture, activities, and field experiences revolve around developmentally appropriate teaching, context based assessment, supportive learning theory and application, and structure of the middle school.

301 Middle Childhood Education and Curriculum (5)

Prereq: 300. *R. Romano*. Specifically designed for middle childhood preservice teachers with a focus on social foundations of teaching and learning, with emphasis on middle childhood curriculum, middle school organization, and structure.

310 Teaching Language Arts in the Middle Childhood Grades (4)

Prereq: 300. *D. Leal, S. Rebottini, W. Smith*. Provides basic information in language development, oral and written language, and language mechanics. Provides strategies for teaching the language modes through an integrated approach. Stresses assessment in authentic settings.

321 Children's Literature for Middle Childhood (4)

Prereq: admission to advanced standing. This course treats the body of literature by genre, appropriate for children from eight to fourteen years. It includes various techniques for utilizing children's literature in school settings.

330 Teaching Middle School Mathematics (4)

Prereq: 300, admission to adv standing. *B. Beach, C. Smith*. Familiarizes preservice educators with the mathematics curriculum of grades 4–9 and with instructional techniques appropriate for the delivery of the curriculum. The course provides a solid foundation in teaching and learning applied to mathematics, complemented by rich experiences in working with students in actual school settings. Designed to extend preservice teachers' understanding of mathematical content and methodology so that mathematics instruction is seen in terms of active students making appropriate use of technology in learning math as a relevant and coherent body of knowledge, which relates to diverse cultures. The course is designed to be taken concurrently with middle childhood lab course.

340 Teaching Science in Middle Childhood Grades (4)

Prereq: 300; 12 hrs in science from life, physical, earth/space science. A student-centered approach to science teaching will be emphasized. The course will focus on hands-on inquiry and problem solving and the development of pedagogies appropriate to this goal. Standards, assessment, equipment, safety, and instructional resources will also be emphasized. The background for application will be based on appropriate science education theory and research.

350 Teaching Social Studies in Middle Childhood Grades (4)

Prereq: 300. *R. Romano*. Designed for middle childhood preservice teachers with a focus on methods of teaching and learning in social studies, with emphasis on curriculum development, integration/interdisciplinary planning, and team teaching.

360 Field Experience Middle School Education (1–5)

Prereq: EDMS 250 or EDSE 250. *R. Romano*. Emphasis on practicing systematic observation and analysis of teaching and students. The student works very closely with his/her cooperating teacher in planning and teaching short lessons as an integral part of the experience.

490 Independent Study (1–5)

Prereq: adm to EDMS Program, jr. Independent study provides the student an opportunity to focus on some special interest, concern, problem, research, and/or advanced study in a particular field under staff guidance. Suggested readings and other resources depend upon need and interest of the individual; frequent conferences; preparation of final report.

Professional Laboratory Experience (EDPL)

360 Field Experience in Elementary or Secondary Schools (2)

Prereq: jr, perm. *Staff*. Observation and participation in elementary and secondary schools. Prior approval must be secured from Field Experience Office in May for those planning experiences in August–September period and in November for those planning participation in December. May be repeated.

361 Field Service in Education (2)

Prereq: soph. *Staff*. Participation in community agencies, summer camps, recreation programs, Head Start, and various school-related programs. Arrangements must be made in Field Experiences Office prior to participation.

460 Observation and Participation in Elementary or Secondary Schools (3)

Prereq: perm. *Staff*. Extensive participation in school program extending over period of one quarter, designed primarily for students with some classroom teaching experience, especially students from other countries.

461 Student Teaching in Middle Childhood (7)

Prereq: perm. *Staff*. Assigned responsibility for teaching under supervision of master teacher in classroom in 4–9 range for 1 qtr, full-time. Concurrent registration in 461, 462, and 465 is required of all middle childhood education and intervention specialist majors. Concurrent registration in 461, 463, and 465 is required of majors in arts, music, and physical education.

462 Student Teaching in Middle Childhood (6)

Prereq: 461. Continuation of 461. See 461 for description.

463 Student Teaching in Secondary Schools (6)

Prereq: perm. *Staff*. Assigned responsibility for teaching under supervision of master teacher in classroom in 7–12 range for one quarter, full-time. Concurrent registration in 463–464–465 is required of all majors in secondary academic areas, home economics, and industrial arts. Majors in art, music, and physical education must register concurrently for 461, 463, and 465.

464 Student Teaching in Secondary Schools (7)

Prereq: 463. Continuation of 463. See 463 for description.

465 Student Teaching Seminar (3)

Staff. Analysis and interpretation of student teaching experience. Problem-centered discussion of major areas of concern directly related to classroom teaching. Structured discussion of unit and lesson planning, evaluation, classroom management, pupil adjustment, effects of recent legislation upon classroom teacher, position procurement, professional ethics, and professional organizations. Concurrent enrollment for 13 quarter hours credit in student teaching required.

466 Student Teaching for Advanced Students (6–9, max 9)

Prereq: perm. *Staff*. Supervised observation, participation, and limited teaching; open only to elementary education degree candidates and selected secondary education and special education with a minimum of three years of prior teaching experience.

Secondary Education (EDSE)

297T Secondary Education Tutorial (1–15)

Prereq: Honors Tutorial College and perm. *J. Safran*.

298T Secondary Education Tutorial (1–15)

Prereq: Honors Tutorial College and perm. *J. Safran*.

299T Secondary Education Tutorial (1–15)

Prereq: Honors Tutorial College and perm. *J. Safran*.

350 Secondary School Planning and Instruction (4)

Prereq: admission to adv standing. Designed to enable preservice educators to design, implement, evaluate, and reflect upon the processes of secondary school teaching and learning. Course focuses on systematic planning, methods of direct instruction, and effective classroom interaction. Course is specifically designed around the four domains of Praxis III with particular focus placed upon domain A—organizing content—and domain B—creating a learning environment—with emphasis on content area reading skills applied to textbook analysis and readability. Analyses used for planning appropriate instruction. Course includes clinical and field experiences in secondary schools.

351 Secondary School Teaching and Learning (5)

Prereq: 350. Extends upon the content of 350. Using the Ohio model curricula, the course explores secondary school curriculum development and assessment. The course helps preservice teachers to build a repertory of teaching strategies by exploring methods of induction, inquiry, and constructivism. Praxis III domains are addressed in student-developed learning units and modules, which are field tested in school classrooms prior to student teaching in the same setting. Particular emphasis is given to domain C—teaching for student learning—and domain D—professionalism—with emphasis given to uses of content area reading skills for improving instruction. Skills supplement specific methodologies taught in the course. Course includes a 2 credit hour lab scheduled with EDCI 371B.

397T Secondary Education Tutorial (1-15)

Prereq: Honors Tutorial College and perm; 297T and 299T. *J. Safran.*

398T Secondary Education Tutorial (1-15)

Prereq: Honors Tutorial College and perm; 297T and 299T. *J. Safran.*

399T Secondary Education Tutorial (1-15)

Prereq: Honors Tutorial College and perm; 297T and 299T. *J. Safran.*

440 Middle and Secondary School Science Methods (4)

Prereq: 440L concurrent; 351; jr; perm. *R. Martin, C. Sexton, R. Mitias.* Study of curriculum and teaching goals; preparation of inquiry-based lessons; uses of technology in science instruction; science safety, studied and practiced. Written and verbal evaluation of teaching; critiques of instructional resources; creation of a science teacher professional development plan.

440L Middle and Secondary School Science Teaching Lab (2)

Prereq: 440 concurrent; 351; jr; perm. *R. Martin, C. Sexton, R. Mitias.* This practicum experience in approved school settings enables university students to teach school science students, building from small group instruction to extended teaching of entire classes. College students also participate in science fairs, contests, and olympiads.

479 Teaching of the Social Studies in Junior and Senior High Schools (4)

Prereq: 351. *A. Clubok.* Nature, development, purpose, and value of social studies, with emphasis on methods and techniques of instruction. Curriculum reorganization, unit planning, materials of instruction, and evaluation.

490 Studies in Secondary Education (1-5, max 15)

Prereq: perm of dept chair. *Staff.* Honors students or students seeking honors in secondary education may register for this course.

497T Secondary Education Tutorial (1-15)

Prereq: Honors Tutorial College and perm; 397T. *J. Safran.*

498T Secondary Education Tutorial (1-15)

Prereq: Honors Tutorial College and perm; 398T. *J. Safran.*

499T Secondary Education Tutorial (1-15)

Prereq: Honors Tutorial College and perm; 397T and 399T. *J. Safran.*

Special Education (EDSP)**260 Field Experience. in Special Education (Block II) (4)**

Prereq: Block I. *L. Jageman, J. Yanok.* Serve 80 hours as a special education teacher's assistant; follow the teacher's directions and instructional plans for working with the pupils until given the responsibility to develop your own plans which may be appropriate near the end of the quarter.

271 Introduction to Education of Exceptional Children and Youth (4)

L. Jageman, P. Bates, S. Sparks, J. Yanok. Comprehensive survey of special education programs emphasizing multidisciplinary approach, integration and current trends in providing instruction to persons with exceptionalities. Includes clinical and/or field experience.

355 Technological Applications in Special Education (4)

Prereq: Block I. Develops knowledge and experience necessary to use microcomputers and other technology with persons who have special needs. Consideration is given to the functionality of hardware, software and peripherals available for use with these individuals. A focus will be on the concerns of special education teachers in using Computer Aided instruction and other technology with students in including: compensation for sensory, physical, communication and learning handicaps.

361 Field Experience in Special Education/Moderate to Intensive Educational Needs (4)

Prereq: Block II and advanced standing. Provides 80 direct field hours of practical application of concepts and skills introduced in special education in the prerequisite and current block courses; direct observations, planning, and teaching persons with moderate to intensive educational needs under the supervision of a cooperating teacher and university supervisor.

370 Classroom Management for Learners with Special Needs (4)

Prereq: Block II. *K. Oswald.* Study of student needs and behaviors which are considered when selecting appropriate management method(s). Develops skills in establishing behavior expectations, consequences, structured activities, specific intervention procedures, and a comprehensive management system. Management techniques are explained, demonstrated, practiced in class, applied in school, and reported in a class seminar and in writing.

371 Teaching the Preschool Handicapped (3)

Prereq: special education block II or perm. *S. Sparks.* Purpose, organization, and methods utilized for education of handicapped children. Variety of program models and delivery systems covered.

373 Curriculum Planning for Learners with Special Needs (4)

Prereq: Block I. *L. Jageman.* Students develop a curriculum rationale, a philosophy, a model, skills in curriculum analysis, selection, development and adaptation of curricula, instructional plans and materials fitting to the goals of the school and the needs of exceptional learners in special and regular classrooms. Skills are developed in planning a school curriculum, a classroom curriculum, a subject curriculum, a unit of study, lesson plans, and selection of instructional materials.

375 The Nature and Needs of Learners with Moderate/Intensive Educational Needs (5)

Prereq: Block I. Analyses of etiologies, characteristics, and assessment of learners, with mental retardation, physical and sensory impairments, medical and behavioral disabilities. Medical, behavioral, social, communicative, assistive devices, psychosocial aspects, legal, ethical, cultural, family, self-determination and advocacy issues are studied in relation to the characteristics and needs of learners from birth through adulthood.

376 Methods for Learners with Mild-Moderate Education Needs (4)

Prereq: Block II and advanced standing. *D. Gut, K. Oswald.* Organization and methods of teaching including selection, planning and teaching of appropriate unit based, project based, problem based, community based, cooperative, inquiry, and constructive learning with emphasis on implementation of current theory and research to strengthen personal-social-vocational adjustment of children with mild-moderate disabilities. Specific techniques will be presented and practiced on how to develop, remediate or compensate for student learning disabilities, learning styles, learning modalities, working styles, study skills, and intelligences.

377 Career Development and Transition Planning for Learners with Special Needs (4)

Prereq: Block III and advanced standing. *J. Yanok.* Presents a comprehensive overview of the continuum of vocational options at the secondary and post secondary schools levels and presents procedures for preparing exceptional children and adults to fulfill their career roles as family members, community residents, as well as workers will be examined.

378 Principles of Work for Persons with Disabilities (3)

Prereq: 272 or permission. *L. Jageman.* Develop skills for understanding and application of agency mission, work values, plant layout, production flow, work site analysis, ergonomics, adaptive fixturing, time study, scheduling, work motivation, quality control, safety, evaluation, and records to enhance sheltered or community employment programs for persons with disabilities.

379 Principles of Habilitation Programming for Persons with Disabilities (3)

Prereq: 272 or perm. *L. Jageman.* Designed to develop skills in selecting what to teach and planning to teach by using objectives, organization, methods, materials, and programs essential to teaching self-care, homemaking, family, and community skills to adults with disabilities.

401 Interventions for Students with Emotional and Behavioral Needs (4)

Prereq: Block III in special education. *S. Safran.* Developing and teaching intervention strategies for students with mild to intensive educational needs who experience emotional and behavioral difficulties. Specific methods in the areas of affective education, behavioral interventions, social skills training, psychoeducational techniques, assessment, collaboration, crisis intervention, communication skills, and evaluating, and coordinating community resources.

460 Field Experience in Special Education— with Mild to Moderate Educational Needs (3)

Prereq: Block III and advanced standing. *D. Gut, K. Oswald.* Field-based experience designed to provide supervised practical experience through tutoring children or youth with mild to moderate educational support needs in the public school setting. Field experience includes diagnostic-prescriptive teaching in areas of reading, arithmetic, and language arts.

461 Field Experience in Special Education— Moderate to Intensive Educational Needs (4)

Prereq: Block III and advanced standing. *M. Roth.* Practical application of concepts and skills introduced in the special education Block IV courses: supervising, evaluating, managing, and teaching persons with moderate to intensive educational needs.

475 Methods and Materials for Teaching Persons with Moderate/Intensive Educational Needs (5)

Prereq: EDSP 375, Block II, and advanced standing. *M. Roth.* Design and application of multifaceted/transdisciplinary assessment procedures, curricular adoption/development, IEP, transition, technology planning, proficiency testing/alternatives, instructional strategies including age-appropriate, functional, and community-referenced skills; use of behavioral supports; educational, adaptive equipment, assistive devices, and instructional materials to promote self-determination. Methods are applied through case-based instruction, hands-on participation, and cooperative teaming.

477 Consultation and Collaboration in Special Education (4)

Prereq: Block III and advanced standing. *S. Safran.* A comprehensive overview and development of professional competencies related to collaboration and consultation in special education. Content includes the consultation process, communicating with professionals and parents, working in teams, legal and ethical issues, and collaborating with families of students with special needs.

485 Diagnosis and Evaluation of Children with Disabilities (4)

Prereq: Block II. *D. Roach.* Covers the traditional and non-traditional methods of assessment, screening and classification, collection and appropriate application of clinical data utilizing laboratory and field experiences.

490 Study of Special Education (1–5, max 15)

Prereq: perm of area coordinator. Independent analysis of problems, special interests, concerns, with assigned and suggested readings, programmed experiences, and preparation of final report, with guidance of faculty member.

**Electronic Media (EM)
formerly Radio-Television (RTV)**

The following courses are available only at the Zanesville and Southern campuses for the A.A.S. in electronic media.

101 Introduction to Electronic Media (3)
(fall) Overview of field, facilities, student responsibilities, and career expectations in electronic media.

122 Radio-Television Performance (4)
(spring) To provide overview of responsibilities required for radio and television announcing, and to provide practice and performance situations necessary to develop proficiency in performance skills.

209 Topics in Radio-Television Engineering (3, max 18)

Intensive study of all functions of electronics as they relate to topics in field. Prepares students who complete all topics to take FCC General Class and/or SBE exams required for broadcast engineering positions. Lab time included with instruction on operation of test equipment and facilities maintenance.

211 Audio Production-Direction (4)
(winter) Principles of basic radio production and development of criteria for evaluation of radio production. 2 lec, 4 lab.

214 Advanced Audio Production/Performance (2, max 4)

Prereq: 211. (fall, spring) Innovative techniques for production and performance of audio materials. Investigation and analysis of audio production development, and individual problems.

216 Introduction to Video Production (4)
(spring) Principles of basic television production and development of criteria for evaluation of television production. 2 lec, 4 lab.

217 Advanced Video Production (2, max 4)
Prereq: 216. (winter, spring) Applications of studio and field production with emphasis on innovative techniques.

257 Advertising in the Broadcast and Cable Media (4)

(winter) Introduction to principles and practices of advertising and selling of time in electronic media situations. Format includes substantial instruction and interaction with individuals employed in station sales departments, and preparation of materials for sales strategies and campaigns.

267 International Media Systems (4)

Surveys the role of the media in representative foreign countries. Media are examined relative to their structure, function, patterns of use, regulation and control, and relationship to other systems. Culture, politics, history, economics, geography, educational levels, and other aspects of the countries will be discussed.

289 Broadcast Workshop (1, max 6)

Prereq: EM major. (fall, winter, spring) Production of technically related assignments monitored and supervised within broadcast related services of OU–Zanesville. Requires minimum number of assigned hours of tasks per week during school terms.

290 Radio-Television Internship (1)

Prereq: EM major. Approved assignments in area radio, TV, cable, or media production facilities. Requires contract of duties and time commitment between coordinator, student, and employee. Written evaluation required for course completion.

298 Independent Study (1–4, max 4)

Prereq: EM major, written proposal, and perm. Research projects requiring self-directed study and completion of paper or production relating to electronic media. (May be repeated up to 4 qtrs.)

**Electronics Technology
(ETCH)**

The following courses for the A.A.S. in electronics technology are available on the Lancaster and Southern campuses.

110 Basic Electronics (4)

Prereq: MATH 101, 102, or higher placement. Introductory knowledge of electricity and solid state electronics. Basic electrical terms, units, symbols, schematics, and code. Fundamentals of alternating current and direct current electricity. Ohm's Law applied to series and parallel networks. Inductance and capacitance theory. Test equipment used for troubleshooting. Fundamentals of solid state theory and application. Operating characteristics of diodes, transistors, and I.C.s. Concludes with introduction to computers and microprocessors. 2 lec, 4 lab.

111 AC and DC Circuit Analysis (4)

Prereq: 110, MATH 113, or perm. AC and DC electrical circuits. Application of network theorems to circuits containing resistors, capacitors, inductors, and transformers emphasized. 2 lec, 4 lab.

112 Industrial Electronics (4)

Prereq: 111 or perm. Advanced study of solid state devices, their operating characteristics, and circuit analysis. Transistor amplifiers, bias, impedance matching and classes of operation, integrated circuit theory, and application. 2 lec, 4 lab.

120 Digital Electronics (4)

Prereq: 111 or perm. Comprehensive study of pulse and digital circuits used in industry. Wave shaping, switching circuits, trigger circuits, nonsinusoidal oscillators, and sequencing systems. Digital concepts, Boolean algebra, logic circuits, memory circuits, arithmetic unit, and logic application to electronic control circuits. Field trips part of lab activity. 2 lec, 4 lab.

134 Direct Current Circuit Analysis (5)

Prereq: 110 or perm. Direct current electrical theory, application, and circuit analysis. 3 lec, 4 lab.

135 Alternating Current Circuit Analysis (5)

Prereq: 134 or perm. Alternating current electrical theory, application, and circuit analysis. Sinusoidal wave forms, inductive reactance, resonance circuits, and RC circuits. Power transformers and polyphase systems. Power generation and distribution. 3 lec, 4 lab.

**140A–J Power Distribution Systems
(1–5, max 5 each segment)**

Prereq: 135 or perm. (A) residential electrical wiring, (B) commercial electrical wiring, (C) industrial electrical wiring, (D) National Electrical Code, (E) low-voltage wiring, (F) high-voltage systems, (G) fire alarm systems, (H) electrical safety, (I) electrical blueprints and specifications, (J) new developments in power distribution.

220 Electrical Motors, Control Circuits, and Computers (4)

Prereq: 111 or perm. Industrial power rotating machines and computer control. Motor principles, classification, and application. Motor control circuits, single phase, 3-phase systems, relays, and overload protection. Testing and maintenance procedures. Field trips part of lab activity. 2 lec, 4 lab.

221A Programmable Controllers, Instrumentation & Process Control I (4)

Prereq: 220 or perm. A study of process control including transducers and controller principles. Emphasis on instrumentation, programmable controllers, and analog and digital control of the manufacturing process. 2 lec, 4 lab.

221B Programmable Controllers, Instrumentation & Process Control II (4)

Prereq: 221A or perm. Continuation of 221A. Emphasis on process control. 2 lec, 4 lab.

234 Industrial Electronics and Linear Integrated Circuits (5)

Prereq: 112 or perm. Theory and application of solid state industrial control. Silicon control rectifiers, photoelectric, differential amplifiers, oscillators, and phase shift controls. 3 lec, 4 lab.

236A Microprocessor and Computer Basics (4)

Prereq: 120 or perm. Introduction to computer organization and design, including ROMs, RAMs, microprocessors, instruction sets, hardware, software, and machine and assembly language programming. 2 lec, 4 lab.

236B Microprocessor and Computer Basics (4)

Continuation of 236A. Emphasis is on computer interfacing.

236C Robotics (6)

Prereq: 236B, MATH 118; or perm. Introduction to fundamentals of robotics. 3 lec, 6 lab.

237 Design and Production of Electronic Circuits (3)

Printed circuit theory, design, application, and fabrication. 2 lec, 2 lab.

240A–P Electronic Communication Systems (3–5)

Prereq: 234 or perm. Introduction to various types of communication systems. Includes microwave, R.F., television, audio, and sound systems.

250 Computer Programming for Electronic Circuit Analysis (3)

Prereq: 112 or perm. Introduction to high-level language programming for solution of electronic circuit problems. 2 lec, 2 lab.

260 Data Communications and Computers (4)

Prereq: 236B or perm. A study of computer communications systems, including telecommunications. Topics include modems, amplifiers, local area networks (LANs), communication standards, and protocols. An introduction to the principles of radio, television, telephone, and digital networks will also be studied. 2 lec, 4 lab.

288 Personal Computer Maintenance (4)

Prereq: 236B or perm. Repair and trouble shooting of the personal computer emphasizing the IBM series. Topics will include specifications, documentations, timing diagrams, diagnostic programs, test instruments, logic analyzers, and in-circuit emulation. Other personal computers may be considered. 2 lec, 4 lab.

289 Electronic Trouble Shooting and Repair (4)

Prereq: 112 and 120 or perm. Fundamentals of test equipment applications with emphasis on repair of consumer and industrial analog equipment. 2 lec, 4 lab.

299 Special Problems (1-3, max 3)

Prereq: perm. Individualized projects or internship experiences under supervision of faculty member in electronics technology.

Engineering, Chemical (CHE)**100 Introduction to Chemical Engineering (1)**

(winter) Overview of the profession's history, present status, and future opportunities. Goals and details of the curriculum. 1 lec.

101 Approaches to Chemical Engineering Problem Solving (4)

(spring) Introduction to goals and methods of problem-solving techniques; uses of computers for calculations, document preparation. Implementation of selected professional software. 4 lec.

200 Material Balances (4)

Prereq: 101. (winter, summer) Applications of chemistry, physics, and mathematics to the solution of mass balances. Single and multiple unit systems. Reactions, recycle, and bypass. Single and multiphase systems. 3 lec, 2 rec.

201 Energy Balances (4)

Prereq: 200, C or better. (spring, summer) Continuation of 200. Energy balances. First Law of Thermodynamics. Nonreactive and reactive processes. Heats of reaction, formation, and combustion. Phase change operations. 3 lec, 2 rec.

305 Chemical Engineering Thermodynamics (4)

Prereq: 201, C or better. (fall) Application of thermodynamics to chemical engineering problems, including problems in chemical equilibrium in homogeneous and heterogeneous systems, mixtures, and pure materials. 3 lec, 2 rec.

306 Chemical Engineering Phase Equilibria (4)

Prereq: 305. (winter) Continuation of 305. See 305 for description. 3 lec, 2 rec.

307 Chemical Engineering Kinetics I (3)

Prereq: 306, or with 306, 400. (winter) Application of chemical kinetics and material and energy balances to the design of chemical reaction systems. 2 lec, 2 rec.

308 Chemical Engineering Kinetics II (4)

Prereq: 306, 307, 346, 400. (spring) Continuation of 307. See 307 for description. 3 lec, 2 rec.

331 Principles of Engineering Materials (4) (2A)

Prereq: CHEM 122 or 152. (fall, winter, spring, summer) Fundamental principles underlying behavior of engineering materials. Relationship between structure and properties of ceramic, metallic, and polymeric materials. 4 lec.

345 Chemical Engineering Fluid Mechanics (5)

Prereq: 201, C or better, MATH 340. (fall) Fundamental principles of fluid flow. Transportation and metering of fluids. Laminar and turbulent flow of fluids in conduits and past immersed bodies. 4 lec, 2 rec.

346 Chemical Engineering Heat Transfer (5)

Prereq: 345, 400. (winter) Fundamental principles of heat transfer. Conduction, convection, and radiation heat transfer. Heat exchanger design. 4 lec, 2 rec.

347 Mass Transfer and Separations (5)

Prereq: 306, 346. (spring) Fundamental principles of mass transfer. Diffusivities, mass transfer coefficients, stage-wise and continuous contact unit operations. Absorption, distillation, extraction. 4 lec, 2 rec.

400 Applied Chemical Engineering Calculations (3)

Prereq: MATH 340. (fall) Application of analytical mathematics and numerical methods to the formulation and solution of chemical engineering problems. 3 lec.

408 Engineering Experimental Design (3)

Prereq: 307, 346, 400, or perm. (spring) Application of engineering analysis and statistics to the design of experiments with particular emphasis on continuous processes as typically encountered in the chemical and materials areas. 2 lec, 2 rec.

415 Unit Operations Laboratory I (3)

Prereq: 308, 347. (fall) Lab practice to illustrate principles of selected unit operations, thermodynamics, and applied kinetics; and to aid student in gaining confidence in handling of chemical engineering equipment. Development of ability to devise and conduct chemical engineering experiments with minimum supervision and to report results satisfactorily will be stressed.

416 Unit Operations Laboratory II (3)

Prereq: 308, 347. (spring) Continuation of 415. See 415 for description.

417 Process Control Laboratory (2)

Prereq: 442 or with 442. (winter) Laboratory for 442.

418 Engineering Materials Laboratory (2)

Prereq: 331. (fall, winter, spring, summer) Demonstrations and experiments supporting relationships which exist between the physical treatment and the structure and properties of materials.

420 Coal Conversion Technologies (3)

Prereq: 308, 347, 400, or perm. Coal characterization. Introduction to fixed bed, fluid bed, and entrained bed operations. Equilibrium and kinetic predictions. Coal gasification and liquefaction processes. 3 lec.

430 Metallic Corrosion (4)

Prereq: 331 or perm. Basic principles of corrosion including electrochemical foundation, influence of environment, stress, strain, and structure. Selected lab experiments. 4 lec.

440 Process Modeling and Control (3)

Prereq: 442 or perm. Digital computer control in chemical engineering. State space concepts and their application in process control. 3 lec.

442 Process Control and Simulation (4)

Prereq: 308, 346. (fall) Simulation and control of chemical processes. Feedback control using root loci and Bode diagrams covered. 3 lec, 2 rec.

443 Chemical Engineering Design I (4)

Prereq: 308, 347. (fall) Preliminary design of a chemical process. Process synthesis, computer flowsheeting, layout, safety, and economics. Involves trips to various chemical plants. Also involves the assessment of skills from explicit and implicit prerequisite courses. 2 lec, 4 rec.

444 Chemical Engineering Design II (4)

Prereq: 443. (winter) Continuation of 443. See 443 for description. 2 lec, 4 rec.

448 Safety in the Process Industry (3)

Prereq: sr, CHEM 153. Hazard and operability analysis of chemical processes and the subsequent safe operation criteria. 3 lec.

450 Fundamentals of Materials Analysis (3)

Prereq: 331 or perm. An overview of both classical and modern techniques of materials analysis. Topics covered include classical optical spectroscopies (IR, FTIR, Raman, UV/VIS), and modern surface techniques, such as AES, XPS/ESCA, and RBS. 3 lec.

452 Introduction to Transport Phenomena (3)

Prereq: 347, 400. Integration of fluid flow, heat transfer, and mass transfer into a coherent topic. Origin of general equations and methods of application to specific engineering problems. Introduction to contemporary engineering science. 3 lec.

460 Atmospheric Pollution Control (4)

Prereq: 307 or ME 321, or perm. Sources of air pollution from major industries, internal combustion engines, and other sources. Techniques available for measuring particulate and gaseous pollutants in atmosphere and at their sources. Techniques available for control and future possibilities for control of air pollution. Bases for air pollution legislation. 4 lec.

461 Environmental Assessments (3)

Prereq: MATH 340, CHEM 123 or 153, jr. Determining whether emissions to air, land, or water are likely to be dangerous to people or environment. 3 lec.

462 Air Pollution Modeling (3)

Prereq: MATH 340, CHEM 123 or 153, jr. Gaussian plume, Gaussian puff, microscopic, box, world, and other release models. Computer models used. 3 lec.

477 Introduction to Polymer Synthesis (3)

Prereq: sr, CHEM 454. Polymer structure, reaction mechanics, kinetics, reactors, processing, and properties. 3 lec.

481 Biochemical Engineering (3)

Prereq: 308, 347, 400, or perm. Study of processes in chemical engineering that depend on biological systems. Overview of biological basics, enzyme kinetics, major metabolic pathways, cell growth characteristics, essentials of recombinant DNA technology, bioreactor design and control, and an introduction of purification methods. 3 lec.

482 Topics in Bioseparations (3)

Prereq: CHE, CHEM, Life Sci sr, or perm. Basic techniques, such as cell disruption, centrifugation, precipitation, micro- and ultrafiltration, various forms of chromatography for the separations of biomolecules, especially proteins, will be introduced. Some emphasis will be placed on preparative and large scale applications. 3 lec.

490 Special Investigations (1-3, max 9)

Prereq: perm. Individual or small-group work, under staff guidance, in research or advanced study in particular field of chemical engineering. (Only three hours of special investigations in any area can be counted towards the CHE technical elective requirement.)

Engineering, Civil (CE)

210 Plane Surveying (4)

Prereq: MATH 163 or MATH 263, or perm. (fall, spring) Basic theory and field practice in measurement of distance, elevation, and angle; introduction to GPS and photogrammetry. 3 lec, 3 lab.

220 Statics (4)

Prereq: MATH 263C, PHYS 251. (fall, winter, spring) Laws of equilibrium of forces, friction, centroids, and moment of inertia. 4 lec.

222 Strength of Materials (4)

Prereq: grade of C or better in 220. Simple stresses and strains, bending, torsion, beam deflection, columns, and combined stresses. 4 lec.

223 Strength of Materials Laboratory (1)

Prereq: 222 or with 222. Testing of various materials under axial compression, tension, flexure, torsion, impact, fatigue. Use of electrical, mechanical, and photoelastic strain measuring equipment. 2 lab.

301 Applied Mechanics (5)

Prereq: MATH 263D, PHYS 251. (winter, spring) Not open to students who have completed 220 or 222. Calculus-based terminal course in applied mechanics for students outside the civil or mechanical engineering programs. Concurrent and nonconcurrent force systems at rest. Internal response of deformable bodies to external loads. 5 lec.

311 Route Engineering (4)

Prereq: 210. (winter) Horizontal and vertical curves; geometric design of highways; earthwork distribution; introduction to engineering economy. 4 lec.

330 Structural Theory I (5)

Prereq: C or better in 222, ET 181. (fall) Determinacy requirements; analysis of statically determinate structures; influence lines; deflections; introduction to analysis of statically indeterminate structures. 5 lec.

331 Structural Theory II (3)

Prereq: C or better in 330. (winter) Indeterminacy conditions for structures; slope deflection method; moment distribution method; influence lines; introduction to computer methods. 3 lec.

340 Fluid Mechanics (5)

Prereq: C or better in ME 224. Statics and dynamics of viscous and nonviscous fluids, dimensional analysis and similitude, 1-dimensional gas dynamics, pipe flow, principles of lift and drag, introduction to boundary layers. 5 lec.

341 Fluid Mechanics Laboratory (1)

Prereq: 340 or with 340. Lab techniques, calibration principles, fluid and flow measurements. 2 lab.

342 Applied Hydraulics (3)

Prereq: C or better in 340. (spring) Flow and pressure distribution in multiloop networks, dynamics of flow in pumps and turbines, uniform and nonuniform flow in open channels, culvert hydraulics, hydraulic transients. 3 lec.

343 Hydrology (3)

Prereq: 340, ISE 304 or with ISE 304. (spring) Hydrologic cycle. Precipitation and runoff data; groundwater hydraulics; infiltration; peak runoff calculations. Application to water resource problems. 3 lec.

353 Basics of Environmental Engineering (3)

Prereq: jr. (spring) Engineering concepts, theory, design, and practice as applied to solution of problems of environmental technologies, waste management, drainage, and control of water, soil, and atmospheric pollution; social and environmental impact of these solutions. 3 lec.

361 Transportation Engineering (3)

Prereq: 311. (spring) Comparative analysis of various modes of transportation, with emphasis on inherent advantages and disadvantages of each; planning process applied to transportation facilities. 3 lec.

370 Geotechnical Engineering (4)

Prereq: 222, 340, GEOL 283. (winter) Soil compositions, physical and chemical properties, and classifications; water movement and seepage problems; consolidation and shear strength; applications to earth structures, retaining walls, slope stability, bearing capacity, and settlement. May be taken as 570 for grad credit except by civil engineers. 3 lec, 2 lab.

371 Soil Engineering Laboratory (1)

Prereq: 370 or concurrent with 370. Classification of soils and determination of their properties through tests; grain size analysis, Atterberg limits, relative density, Proctor testing, permeability, direct shear, and consolidation. 3 lab.

380 Civil Engineering Materials (3)

Prereq: 222. Engineering properties of materials used in civil engineering applications including metals, concrete, timber, and composites.

410 Applied Property Surveying (3)

Prereq: 210. (spring) Triangulation, astronomical observations, land surveying, instrument adjustments, special topics. 2 lec, 3 lab.

415 Photogrammetry (3)

Prereq: 210 or perm. (spring) Equipment and methods used in aerial photography and land measurement. 2 lec, 2 lab.

423 Continuum Mechanics (4)

Prereq: perm. (winter) Matrix methods in mechanics and structures; laws of dynamics; mechanical properties of solids and fluids; basic theories of continuum mechanics. Grad course open to selected undergrads. 4 lec.

424 Strength of Materials II (3)

Prereq: C or better in 222. (fall) Unsymmetrical bending, shear centers, columns, energy, and continuation of basic topics usually taught in Strength of Materials I. 3 lec.

427 Experimental Stress Analysis (3)

Prereq: 424. (spring) Experimental methods of stress determination including photoelasticity, stress coat, and electric strain gauge techniques; stress analogies; strain rosettes for combined stress determinations. Grad course open to selected undergrads. 2 lec.

431 Experimental Methods in Structural Dynamics (3)

Prereq: perm. Modal analysis of structural models to identify their vibration characteristics. Frequency response functions using dual-channel signal analyzers. Mobility measurement techniques. Modal parameter extraction techniques. Computer-aided structural dynamics. Grad course open to selected undergrads. 2 lec, 3 lab.

432 Structural Design in Concrete (4)

Prereq: C or better in 330. (winter) Materials and properties; design methods, strength of rectangular sections subject to bending moments, axial loads, and shear forces either separately or in combination; continuity in concrete construction; design of one-way slabs; design of T-sections in bending; deflection calculations; footing design. 4 lec.

433 Structural Design in Steel (4)

Prereq: C or better in 330. (spring) Materials and properties; design methods, design of tension members; structural fasteners; design of compression members, beams, trusses, and frames. 4 lec.

434 Advanced Structural Design (3)

Prereq: 432 or 433, or perm. (spring) Design of complete structures or major components of structures. 3 lec.

437 Timber Design (3)

Prereq: 330. (winter) Material properties and behavior of structural timber. Analysis and design of sawed timber and laminated timber members. Timber construction analysis and design.

438 Prestressed Concrete Design (3)

Prereq: 330, 432. (spring) Theory of prestressing. Design and analysis of prestressed concrete beams, slabs, box girders, and bridge girders by elastic and ultimate strength methods.

439 Computer-Aided Structural Design (3)

Prereq: 432 and 433, or perm. (spring) Analysis and design of complete structural systems constructed from reinforced concrete, structural steel, and/or other applicable materials by using computers. Material reports and cost estimation of projects. 1 lec, 4 lab.

445 Flow Routing (3)

Prereq: 342 or perm. (fall) Gradually varied flow computation, the use of computer software programs for flow routing, and their engineering applications.

450 Water Treatment (3)

Prereq: 342, 343, CHEM 123. (fall) Sources and collection of public water supplies; principles of treatment processes. 3 lec.

451 Wastewater Treatment (3)

Prereq: 342, 343, CHEM 123. (winter) Quantities and collection of municipal wastewater; principles of treatment processes. 3 lec.

452 Water and Wastewater Analysis (3)

Prereq: CHEM 123. (winter) Lab methods and interpretation of results for chemical and bacteriological examination of water and wastewater. 2 lec, 3 lab.

453 Solid/Hazardous Waste Management (3)

Prereq: sr, perm. (fall) Identification, classification, and study of methods of characterization, handling, treating, managing, and disposal of solid/hazardous wastes regulated under federal and state guidelines and legislation.

457 Water Resources Engineering (3)

Prereq: 343 or perm. (winter) Elective sr civil engineering course designed to provide integrated treatment of water resources engineering, including hydrological measurements, runoff, groundwater, water law, reservoir design, frequency analysis, planning, flood control. Systems approach to multipurpose water resource projects emphasized. 3 lec.

458 Water Quality Engineering (3)

Prereq: perm. (spring) Natural and man-made characteristics of water quality, changes in quality resulting from use, criteria for control of stream pollution, methods of improving water quality, also legal, economic, and institutional aspects. Grad course open to selected undergrads. 3 lec.

462 Traffic Engineering (3)

Prereq: 361; major or perm. (winter) Vehicle and driver characteristics, uses of traffic control devices, intersection design and capacity, parking characteristics. 3 lec.

471 Foundation Engineering (3)

Prereq: 370. (spring) Design and construction problems in soil engineering; subsurface investigation; foundation selection and design criteria; principles of design of shallow and deep foundations; site improvement. 3 lec.

474 Soil Mechanics Laboratory (1)

Prereq: perm. (spring) Advanced techniques for measurement of soil engineering properties. Grad course open to selected undergrads. 3 lab.

482 Paving Materials and Mixtures (3)

Prereq: perm. (fall) Types, constituents, chemical behavior, tests, specifications, and uses of bituminous materials, Portland cements, and aggregates in pavements. Design and manufacture of paving mixtures and construction of pavements. Grad course open to selected undergrads. 2 lec, 3 lab.

483 Principles of Pavement Design (3)

Prereq: perm. Fundamentals of wheel loads and stresses in pavements. Properties in pavement components and design tests. Design methods and evaluations. 3 lec.

490 Special Investigations (1-5)

Prereq: perm. Special investigation or problems not covered by formal courses. Permits well-qualified student to pursue individual study under direction of faculty member.

491A Senior Design—Land Use (4)

Prereq: 343, 361, or perm. (fall) An advanced applied engineering course utilizing multiple fundamental civil engineering courses as applied to land utilization.

491B Senior Design—Environmental/Water Resources (4)

Prereq: 450, with 451, or perm. (winter) An advanced applied engineering course utilizing combinations of water/wastewater treatment and hydraulics/hydrology courses as applied to society's needs.

491C Senior Design—Structures and Foundations (4)

Prereq: 370 and 432 or 433, or perm. (spring) A civil engineering design elective integrating fundamental civil engineering courses for foundation and structural design, analysis, and drawing.

491D Senior Design—Special Project (4)

Prereq: sr and perm. An advanced applied engineering course integrating several major disciplines of civil engineering in a design project.

Engineering, Electrical (EE)

NOTE: In the following course descriptions an asterisk (*) denotes that a minimum grade of C is required in the prerequisite course.

101 Introduction to Electrical Engineering (4)

Prereq: MATH 113 or placement level 2. The goal of this course is to introduce students to the profession of electrical engineering. Students will develop a knowledge of key technical concepts of electricity: voltage, current, resistance, and power. In addition, students will study the history, professional values, and methods of electrical engineering. Lab work provides hands-on experience with electrical systems. 3 lec, 3 lab.

102 Introduction to Computer Engineering (4)

Prereq: MATH 113 or placement level 2. The goal of this course is to introduce students to the field of computer engineering. Students will develop a knowledge of the fundamentals of Boolean algebra, binary arithmetic, characteristics of logic gates, and flip-flops. Lab work provides hands-on experience with digital systems. 3 lec, 3 lab.

103 Introduction to Electrical Engineering Design (4)

Prereq: EE 101, 102, and CS 210, 230 or ET 181. The goal of this course is to introduce students to design in electrical engineering. Students will develop an understanding of engineering design principles. Students will also develop a knowledge of microcomputer organization and an ability to perform assembly language programming. Lab work provides students an opportunity to apply design principles on a major project. 3 lec, 3 lab.

200 Introduction to Personal Computer Software for Electrical Engineers (0)

Prereq: ET 280. Introduction to personal computer applications in electrical engineering. Tutorial on software packages used in engineering coursework. Personal computer operating system fundamentals. FORTRAN, circuit analysis software, word processing, spreadsheets, and data base applications are investigated.

210 Circuit Analysis I (4)

Prereq: MATH 263B* and with EE 200. (fall, winter) Basic concepts and definitions, units, DC circuit analysis, Kirchhoff's laws, source transformations, mesh and nodal analysis, network theorems.

211 Circuit Analysis II (4)

Prereq: 200, 210*, and MATH 263C. (winter, spring) Continuation of 210. Inductance and capacitance, initial conditions, periodic functions, average and RMS, complex numbers, phasors, sinusoidal steady state circuit analysis, plus polyphase circuits.

212 Circuit Analysis III (4)

Prereq: 211* and MATH 340. (fall, spring) Continuation of 211. AC network theorems, coupled circuits, frequency response, transient circuit analysis, two port networks, complex frequency, and transformers.

221 Instrumentation Laboratory (2)

Prereq: 210; 211 or concurrent. (winter, spring) Theory and applications of lab instruments. Lab experimentation involving electrical and magnetic phenomena.

222 Introduction to Digital Circuits (3)

Prereq: 210*, ET 181; or CS 240C. (spring, fall) Fundamentals of Boolean algebra; binary arithmetic; characteristics and applications of logic gates and flip-flops.

232 Analytical Foundations of Electrical Engineering (5)

Prereq: 211*, MATH 340, ET 181. (spring, fall) Vector analysis, line and surface integrals, with applications to electromagnetic fields. Matrix theory with applications to state variable formulation of linear and nonlinear systems. Complex variable theory, complex integral and series, residue theorems with applications to systems. Special analytical techniques for solution of complex electrical engineering problems with emphasis on computer-oriented techniques.

301 Intermediate Laboratory I (1)

Prereq: 221 and/or with 340. Intermediate-level lab in practical electronics designed to provide exposure to devices and circuits discussed in corequisite lecture course.

302 Intermediate Laboratory II (1)

Prereq: 301 and/or with 341. Continuation of 301.

303 Intermediate Laboratory III (1)

Prereq: 367. Experiments in microprocessors and electronics.

304 Basic Electrical Laboratory I (1)

Prereq: 313 or with 313. Lab supplement to 313. Basic instruments and circuit measurements.

305 Basic Electrical Laboratory II (1)

Prereq: 304 and/or with 314. Lab supplement to 314. Operation of semiconductor devices, amplifier design, oscillators and digital circuits design.

310 Linear Systems and Networks I (4)

Prereq: 211*. (fall, winter) Introduction to continuous and discrete time signals and systems. Topics include signal models and system classification. Representations for continuous- and discrete-time systems. Impulse response and convolution for continuous-time signals. Unit pulse-response and convolution for discrete-time systems. Laplace transform for continuous-time signals and systems. Transfer function analysis of continuous-time systems. State-space analysis of continuous-time linear systems. Students will use MATLAB extensively throughout the course.

312 Linear Systems and Networks II (4)

Prereq: 310. (winter, spring) Fourier series representation of periodic signals. Fourier transform and its properties. Sampling of continuous-time signals. Frequency-Domain analysis of systems. Z-transform for discrete-time signals and systems. Design of digital filters. Filter design project using MATLAB.

313 Basic Electrical Engineering I (3)

Prereq: MATH 263B, PHYS 253. DC circuits, single-phase steady state AC circuits, and the frequency and transient responses of energy-storage networks. Not open for credit to electrical engineering majors. 3 lec.

314 Basic Electrical Engineering II (3)

Prereq: 313. Semiconductor devices, small signal analysis, amplifiers and oscillator circuits, pulse and digital circuits. 3 lec.

315 Basic Electrical Engineering III (3)

Prereq: 313. Transformers, direct current machines, polyphase induction and synchronous, rotating machines, including equivalent circuits and steady state performance prediction.

321 Electromagnetics and Materials I (5)

Prereq: 212*, 232*. (fall, winter) Introductory treatment of static electric and magnetic fields in free space and stationary matter and physical properties of fields, charges, and currents. Included are electromagnetic field vectors and field equations, boundary conditions, Poisson's equation, solutions of Laplace's equation for scalar electric and magnetic potentials, vector potential, polarization and magnetization charges and currents, and unified macroscopic treatment of fields in matter. Electromagnetic energy.

322 Electromagnetics and Materials II (5)

Prereq: 321. (winter, spring) Continuation of 321. Discussion of time-varying, electromagnetic fields. Application of field theory to solution of problems from various branches of electrical engineering with emphasis upon physical interpretation. Included are relation of field theory to circuit theory, Poynting's theorem, stored energy and power flow, complex fields and power, TEM waves, uniform plane wave, wave reflection and refraction. Theory and applications of transmission lines.

335 Energy Conversion (5)

Prereq: 321. (spring, summer, fall) Basic principles of electromechanical energy conversion. Circuit models and parameter tests for single-phase and 3-phase transformers. Fundamentals of DC machinery; circuit models and characteristics of DC motors. Fundamentals of AC machinery; theory and operation of synchronous machines and induction motors.

340 Electronics I (5)

Prereq: 211*, 222, PHYS 252. (fall, winter) Introduction to semiconductor properties, devices, and applications. Formation of n- and p-type materials, junctions. Properties of diodes, bipolar transistors, and FETs. Solutions of circuit problems by load lines, linear models, and software tools. Basic large signal amplifier characteristics. Rectifier circuits.

341 Electronics II (4)

Prereq: 232*, 340. (winter, spring) Continuation of 340. Application of semiconductor devices to analog circuitry. Small-signal parameters, low-frequency amplifier design, feedback amplifiers, frequency response. Includes computer-aided analysis and design.

367 Introduction to Microprocessors (4)

Prereq: 222; ET 240 or CS 240C. (winter, spring) Basic system organization of microcomputers including I/O interfacing. Assembly language programming of 8-bit microprocessors from elementary operations through subroutines and interrupt processing. Emphasis upon programming for I/O applications involving interaction, monitoring, and control.

371 Applied Probability and Statistics for Electrical Engineers (3)

Prereq: 312; or MATH 263D and with CS 361. (fall, spring) An introduction to fundamental concepts from probability and statistics, emphasizing problem-solving skills and electrical engineering and computer science applications.

401 Advanced Laboratory I (1)

Prereq: 302 or perm. (fall, winter, spring) Advanced lab format follows that of intermediate lab. Student-proposed projects are design- or research-oriented and directed by faculty member specializing in area of investigation. Portion of this lab required in conjunction with certain electrical engineering 400-level lecture courses.

402 Advanced Laboratory II (1)

Prereq: 302 or perm. (fall, winter, spring) See 401 for description.

403 Library Research (1)

Prereq: perm. (fall, winter, spring) Library research under the supervision of a faculty member. Prior approval required. See departmental office for regulations.

405 Physical Electronics (3)

Prereq: 340. Simplified 1-dimensional band theory of solids. Valence and conduction band occupancy from Fermi-Dirac statistics. Hole conduction and doping. Derivation of PN junction volt-amp-temperature characteristic. DC and AC characteristics of junction transistors derived from fundamentals.

406 Advanced Analog Circuits (3)

Prereq: 312, 341, 301, and 302. Advanced analog circuitry. Operational amplifiers, characteristics, limitations. Linear and nonlinear applications. Feedback, stability criteria, compensation, time, and frequency response. Waveform generation and shaping, timing, comparison, and arithmetic operations.

407 Advanced Digital Circuits (3)

Prereq: 312, 341, 301, and 302. Advanced digital circuitry. Basic logic operations, digital device families, and characteristics. Arithmetic, counting, memory, other MSI and LSI functions. Numeric display devices. Analog/digital conversion.

410 Semiconductor Principles I (3)

Prereq: 405. Continuation of 405. Application of semiconductor theory to solid state devices: diodes, transistors, FETs and Gunn effect devices. Charge control analysis; Ebers-Moll equations; electro-optical effects.

411 Analog Filters I (3)

Prereq: 312 and 232. (fall) Principles of filter synthesis, positive-real functions, synthesis of 1-port networks, synthesis of 2-port networks, approximation, frequency transformations, and filter design.

412 Analog Filters II (3)

Prereq: 411 or perm. (winter) Principles of active filter synthesis, active filter elements, realization of active 2-port networks, multiple feedback filters, explicit formulas and practical filter design. Sensitivity and non-ideal filter elements. Switched capacitor filters.

413 Digital Filter Design (3)

Prereq: 412 or perm. (spring) Principles of digital filter design, Z-transform, discrete Fourier transform, representations of digital filters, digital filter hardware implementations, and computer-aided design of digital filters.

414 VHDL Design (4)

Prereq: perm. (fall) Application of very high speed hardware description languages (VHDL) for digital design, simulation, verification, and specification. Structural design concepts, design tools. VHDL language, data types, objects, operators, control statements, concurrent statements, functions, and procedures. VHDL modeling techniques, algorithmic, RTL, and gate level designs. Design synthesis. 3 lec, 2 lab.

415 VLSI Design (3)

Prereq: 310, 340. (winter) Introduction to very large scale integration (VLSI) technology and design of CMOS integrated circuits. VLSI fabrication process, design rules, logic design, performance estimation, chip engineering, and computer aids to VLSI design. Students may register for 2 hours of senior lab (401, 402) credit for the VLSI lab work. 3 lec, 2 lab.

416 VLSI Design II (3)

Prereq: 415 or perm. Subsystem design, adders, ALUs, multipliers, high density memories, PLA design, floorplaning, routing, packages, I/O architecture, register transfer design, data-path control, ASIC design, high-level synthesis. Students may register for 2 hours of senior lab (401, 402) credit for the lab work. 3 lec, 2 lab.

425 Control Theory I (3)

Prereq: 312. (fall) Formulation of models for lumped parameter systems, fundamental principles of closed loop control, signal flow graphs, stability, Routh-Hurwitz criterion, root locus construction, specifications, and design via root locus.

426 Control Theory II (3)

Prereq: 425. (winter) Simulation, Bode plots, frequency response performance specifications and relationship to time domain specifications, Nyquist criterion, relative stability measures, closed loop frequency response, analytical design of lead, lag, lag-lead, and PID compensators.

427 Control Theory III (3)

Prereq: 426. (spring) Sampling and data reconstruction, discrete-time systems, z-transforms, sampled data systems, frequency response, Nyquist criterion, root locus, bilinear transformation, analytical design of lead, lag, lag-lead, and PID compensators.

428 State Variable Methods in Control (3)

Prereq: 425. Basic state variable concepts, writing state equations, time-domain solution of the state equation and the matrix exponential, relations to transfer functions, controllability and observability, stability, state variable methods of design including state feedback and state estimation.

429 Mechanics and Control of Robotic Manipulators (4)

Prereq: sr. Classification and applications for mechanical manipulator systems. Manipulator motion description, forward kinematics transformations, and solution of inverse kinematics equations. Velocity kinematics and manipulator dynamics equations. Trajectory generation and control schemes including sensory feedback. Lab exercises to augment lecture material. Co-listed with ME 429.

431 Introduction to Lasers I (3)

Prereq: 322. Introduction to important modern optical devices and lasers and their applications. Emphasizes basic physical theory needed to understand lasers, their construction, and their applications. Detailed discussion of various types of lasers and their characterization.

432 Introduction to Lasers II (3)

Prereq: 431. Continuation of 431. Additional theoretical material discussed beginning with Maxwell's equations. Examines electromagnetic issues that play major role in laser oscillations—amplification and feedback. Characterization of lasers and continuing discussion of laser types and their applications.

433 Optoelectronic Materials and Devices (3)

Prereq: 405. Introduction to modern optical materials and devices utilizing semiconductor technology; optical integration of these devices and their application in diverse fields. Fundamentals of devices and materials emphasized.

440 Microwave Theory and Devices (3)

Prereq: 322. Wave propagation, transmission lines, Smith chart, impedance matching, waveguides, and survey of devices (microwave generators, semiconductor devices, etc.)

441 Antennas (3)

Prereq: 322. Fundamental concepts and definitions, radiation integrals and potential functions, linear wire antennas, loops, arrays, and personal computer applications.

443 Electromagnetics I (3)

Prereq: 322. (fall) Mathematical review of vector operations in Cartesian and curvilinear coordinates. Solution of wave equation in Cartesian coordinates and application to wave reflection from interfaces between general media. Decomposition of wave solutions into TE, TM, and TEM waves, with application to waveguides and transmission lines; solution of wave equation in cylindrical coordinates, with application to circular waveguide, radiation from line sources, and scattering from cylindrical objects.

454 Power Electronics (3)

Prereq: 335, and 341. Introduces seniors to power electronics. Covers most uses of semiconductor devices for the conversion and control of electric power: AC to DC, AC to AC, DC to DC, DC to AC conversions, and DC and AC motor drives. Semiconductor device characteristics (particularly those characteristics not stressed in 340 and 341) and device protection conclude the offering.

455 Introduction to Electric Power System Engineering and Analysis I (3)

Prereq: 335. Includes power system representation, computer methods, symmetrical components, protection methods, and stability.

456 Introduction to Electric Power System Engineering and Analysis II (3)

Prereq: 455. Continuation of 455. See 455 for description.

457 Introduction to Electric Power System Engineering and Analysis III (3)

Prereq: 456. Continuation of 455, 456. See 455 for description.

461 Digital Systems I (3)

Prereq: 222. (fall) Postulates and fundamental theorems of Boolean algebra; algebraic and map methods for design of combinational logic and simple sequential circuits; logic minimization methods; introduction to system design using shift registers, counters, etc.

462 Digital Systems II (3)

Prereq: 461. (winter) Basic concepts from theory of finite-state machines, analysis and synthesis of sequential circuits, study of state assignment, synchronous and asynchronous machines, and system design using integrated circuits.

463 Digital Systems III (3)

Prereq: 462. (spring) Synthesis of sequential circuits using ROMs and RAMs for control logic. Introduction to computer organization and design including selection of instruction set, register and bus organization and implementation of control logic with microprogrammed control.

464 Engineering Applications of Expert Systems (3)

Coreq: 495 or concurrent. Knowledge representation. The process of knowledge engineering. Areas in engineering for expert systems applications. Implementing engineering projects that involve a decision-making process by using an expert system software tool integrated with a database management system. Cross-listed with CS 567.

467 Advanced Microprocessors (3)

Prereq: 367. Organization of 16- and 32-bit microprocessors. Particular attention given to a specific microprocessor family (such as the Motorola 680XY) regarding instruction set, assembly language programming, arithmetic operations, I/O, etc.

468 Microcomputers II (3)

Prereq: 467. Continuation of 467.

470 Communication Engineering (3)

Prereq: 232, 312, and 341. (fall) Unified approach to communications stressing principles common to all transmission systems. Review of Fourier series. Fourier integral and complex frequency techniques with emphasis on communication networks, time response and convolution, measurement of information, amplitude modulation (double and single side-band techniques), frequency modulation, sampling theory, pulse modulation and digital communications systems, fundamentals of random signal theory and its application to communication systems, noise and its effect on conventional modulation systems; noise figure, noise suppression techniques, and other related topics.

471 Statistical Analysis (3)

Prereq: 371. (winter) Analysis of engineering problems using probabilistic and statistical concepts: probability, discrete and continuous random variables, distribution functions, means, moments, characteristic functions, statistical independence, stochastic processes, correlation, estimation, and applications to engineering problems.

472 Digital Communication Systems (3)

Prereq: 470, 471. (spring) The design analysis of digital communication systems: signal modeling using random processes, sampling and reconstruction of signals, and quantization (uniform and nonuniform). Channel noise is considered in the overall system design. Systems considered include OOK, BPSK, FSK, DPSK, QPSK, MSK, and differential systems. Trade-off studies are performed in the design of the systems.

475 Random Signals in Linear Systems (3)

Prereq: 471 or perm. (spring) Introduction to random electrical signals and noise, autocorrelation, crosscorrelation, power spectra, Nth law detectors, matched filters, detection of signals in noise, optimum receivers, and Bayes estimators.

478 Digital Signal Processing (3)

Prereq: 312 and 471. (on demand) Digital techniques for various signal-processing applications. Emphasis on design and realization of digital algorithms for performing specific filtering function. Topics include sampled-data signals, discrete-time system analysis, frequency response and realization of discrete-time systems, infinite impulse response digital filter design, finite impulse digital filter design, and discrete and fast Fourier transforms.

479 PCM Telemetry Systems (3)

Prereq: 471 or perm. (on demand) In-depth study of pulse code modulation systems using total system error (sampling error, quantization error, and channel error). Uniform and nonuniform quantization, companding μ -anquantization, companding μ - and A-law, optimum quantization, coding, DPCM (differential pulse code modulation), LDM (linear delta modulation), and ADM (adaptive delta modulation). Comparison of systems and trade-off analysis.

tions), LDM (linear delta modulation), and ADM (adaptive delta modulation). Comparison of systems and trade-off analysis.

481 Professional Experience in Electrical Engineering (1)

Prereq: sr and perm. Supervised work-study program in an electrical engineering profession, in established industrial environment. Credit dependent on advance registration and mutual agreement between faculty supervisor and participating company. May be repeated; however, hours applied toward graduation limited by department.

485 Electronic Navigation Systems I (3)

Prereq: 312 and 322. (fall) Principles and theory of operation of electronic navigation systems with emphasis on avionics; aircraft instrumentation, VOR, DME, Inertial, Omega, LORAN, ILS, MLS, Transit, GPS, air traffic control, and radar.

486 Electronic Navigation Systems II (3)

Prereq: 485. (winter) Continuation of 485. Focused on current and future avionics systems and aircraft electronics. Design and signal processing in navigation receivers.

487 Electronic Navigation Systems III (3)

Prereq: 486. (spring) Continuation of 485 and 486 with emphasis on mathematical modeling of navigation and landing systems, fault tolerant avionics system design and architectures, and flight testing and current developments.

490 Selected Topics (1-3)

Prereq: perm. Selected topics of current interest in electrical engineering.

495A Electrical and Computer Engineering Capstone Design I (4)

Prereq: 44 hours of EE. The goal of this course is to give students the opportunity to refine and demonstrate their ability in engineering design. Students work on a major design project as part of a team with an emphasis on problem definition and specification. They will conduct a preliminary design review. In addition, students will study the systems approach to problem solving, engineering ethics, economic analysis, and the elements of scheduling and planning. 3 lec, 2 lab.

495B Electrical and Computer Engineering Capstone Design II (4)

Prereq: 495A. Continuation of EE 495A. Students are expected to continue the design begun in EE 495A with an emphasis on construction, pre-testing, and redesign. They will conduct a critical design review. In addition, students will study and develop skills necessary for a successful engineering career. 1 lec, 6 lab.

495C Electrical and Computer Engineering Capstone Design III (4)

Prereq: 495B. Continuation of EE 495B. Students are expected to complete the design developed in EE 495B with an emphasis on final assembly, testing, and analysis of outcomes. They will conduct a formal design review. In addition, the student will be exposed to a variety of career options available to graduates. 1 lec, 6 lab.

Engineering, Industrial and Systems (ISE)**231 Introduction to Industrial and Systems Engineering (2)**

Prereq: MATH 263A. Overview of history and functions of industrial and systems engineering. Topics discussed include historical perspective, production engineering, plant location, plant layout, work measurement and design, job evaluation, production control, quality control, engineering economy, linear programming, and project management. 2 lec.

304 Applied Engineering Statistics (3)

Prereq: MATH 1638 or MATH 2638. Introduction to efficient methods for data collection and analysis. Application of basic statistical tests, techniques, and experimental design concepts to engineering and science data problem areas. Not for ISE undergrad majors. 3 lec.

305 Engineering Statistics I (3)

Prereq: MATH 263C. Introduction to probability, concept of random variables, discrete and continuous probability distributions, and expectation.

306 Engineering Statistics II (4)

Prereq: 305. Functions of random variables, sampling distributions, estimation theory, hypotheses testing, and statistical prediction.

330 Engineering Economy (3)

Comparing alternatives for acquisition of capital assets, expenditure of operating monies, and income generation. Topics include equivalence, annual cost method, present worth method, rate of return method, depreciation, benefit/cost, break-even analysis, income taxes, equipment replacement, and risk. 3 lec.

333 Work Design (5)

Prereq: 304 or 305; IT 110. Design of work systems and measurement of work. Topics include job methods, operation analysis, charting techniques and schematic models, stop-watch time study, work sampling, predetermined time systems, standard data, incentive wage systems, and learning curves. 3 lec, 2 lab.

381 Internship in Industrial and Systems Engineering (1-3)

Prereq: jr. Supervised work-study program, in industrial and systems engineering profession, in established industrial or government environment. Credit dependent upon advance registration and mutual agreement between faculty supervisor and participating company. Course may be repeated; however, hours applied for graduation limited by dept.

402 Manufacturing Systems (4)

Prereq: sr in ENT. Applications of industrial and systems engineering techniques, principles, practices, and methodologies as they relate to the operation, analysis, management, planning, and design of manufacturing systems.

403 Material Handling Systems Engineering (4)

Prereq: 333. Provides a broad understanding of materials handling engineering from a system design and application engineering point of view. Instruction in the engineering principles, design criteria, operating parameters, performance requirements, equipment resources, and applications of engineering practices involved in the planning, design, and operation of materials handling systems for manufacturing, physical distribution, and government operations. A materials handling system design project is a required part of the course.

407 Introduction to Designed Experiments (3)

Prereq: 304 or 306 or equiv. Design and analysis of engineering experiments approached from linear statistical model point of view. Blocking designs, full and fractional factorial designs, analysis of variance, and introduction to response surface methodology. 3 lec.

409 Cost Engineering (3)

Prereq: 330, 333, ACCT 101. Instruction in product cost estimating, product value engineering, and manufacturing performance evaluation in state-of-the-art manufacturing systems. Examines the application of industrial engineering techniques, work measurement, cost accounting, and computers to manufacturing cost measurement and process design.

414 Robotics in Manufacturing Systems Engineering (4)

Prereq: sr in ET. Presents the relationships among product design, process control, robots, design of experiments, and flexible automation. A laboratory with industrial robots is emphasized.

415 Introduction to Systems Engineering (3)

Prereq: 305, MATH 340, ET 240. Introduction to systems engineering concepts. Systems structure, open-loop and closed-loop systems, positive and negative feedback. Applications to production and inventory systems, population, and physical systems. Design project required. 3 lec.

417 Analytical Foundations of Industrial and Systems Engineering (3)

Prereq: 305. (on demand) Special analytical techniques introduced for solution of complex industrial and systems engineering problems. Calculus of finite differences. Fourier analysis, and use of transform techniques in linear system analysis discussed. Probability implications of transforms emphasized.

422 Seminar on Occupational Safety and Health (3)

Historical development of worker's compensation and industrial health and safety; review of federal activities in occupational health and safety with focus on contemporary public policy and risk/benefit issues. Specific occupational health and safety issues dealt with in seminar format.

426 Microprocessor Applications in Manufacturing (4)

Prereq: 305, ET 240. Comparison and contrast of micro-, mini-, and mainframe computers; comparison of RISC and CISC microprocessors; numbering and arithmetic systems; microprocessor and microcomputer hardware organizations; assembly, procedural and object-oriented high-level languages; interfacing and network concepts; industrial data acquisition, process control and computer-integrated manufacturing concepts; graphics and industrial engineering applications; data base management for office and business applications.

427 Manufacturing Data Systems I (3)

Prereq: ET 240. Overview of manufacturing tools, techniques, and applications. Data base architecture, internal storage methods. Structured query language (SQL). Normalization. Manufacturing entities and relations.

428 Digital Computer Systems II (3)

Prereq: ET 240. Fundamentals of activity and information modeling for software systems design.

432 Inventory and Manufacturing Control I (3)

Prereq: 305. Design of inventory and manufacturing control systems. Forecasting, continuous and period review inventory systems. Relationship between production schedules and inventory. Production scheduling systems, sequencing models, dispatching rules. 3 lec.

433 Industrial Computer Simulation (4)

Prereq: 306, ET 240. Simulation of industrial problems utilizing digital computers. Stresses user-oriented programs. Applications include use of library routines and simulation languages such as SIMAN and GPSS. Projects involving design of simulation programs required.

435 Quality Control and Reliability (3)

Prereq: 304 or 306. Application of statistics to control of quality and reliability in products and services. Design of acceptance sampling and process control systems, including attention to inspection and test methods. Design and implementation of quality assurance programs, including nonstatistical dimension of quality systems. 3 lec.

436 Project Management (3)

Development and utilization of network techniques, such as PERT and CPM, to schedule activities, develop financial budgets, allocate resources, and control progress and costs of practical projects. Students introduced to use of available computer programs that generate project schedules. 3 lec.

439 Information Systems Engineering (3)

Prereq: ET 240. Design of information systems including data bases, displays, and the automatic storage, retrieval, and transmission of data.

440A Industrial Plant Design I (3)

Prereq: 333. Introduction to two-quarter program in which students will learn to design a manufacturing facility. First quarter topics include product and process analysis, plant size, layout and location, and building design, estimation of production time for each operation, production scheduling, and inventory control.

440B Industrial Plant Design II (3)

Prereq: 440A, 433. Continuation of 440A with team design of a factory and emphasis on selection of process equipment, incentive wage system, quality control system, project management, and layout of facility using both computer and conventional techniques.

441 Introduction to Operations Research (4)

Prereq: 305. Basic methodology of operations research. Applications and mathematical structure of linear models, linear, integer, and dynamic programming, queuing theory, and other modeling techniques. 4 lec.

442 Inventory and Manufacturing Control II (3)

Prereq: 305. (on demand) Branch and bound scheduling algorithms, horizon planning, control of integrated production, inventory and workforce systems, and linear decision rules. 3 lec.

444 Applications of Mathematical Programming (3)

Prereq: MATH 211. Linear programming theory and practice. Topics include simplex method, 2-phase method, duality theory, and sensitivity analysis. 3 lec.

445A Systems Design I (3)

Prereq: 330, 333, 432, ENG 305J. Design methodology and principles. Identification and definition of design project.

445B Systems Design II (3)

Prereq: 445A. Individual or small-group system design project continued from 445A.

446 Design and Analysis of Maintenance Systems (3)

Prereq: 333. (on demand) Intended to provide industrial engineering students with working knowledge of maintenance systems and ability to design maintenance system.

447 Work Physiology and Occupational Biomechanics (4)

Prereq: 448. (offered on demand only) Introduction to the theory and methodologies involved in work physiology and occupational biomechanics. Structural and functional design of the human body to determine its implications for the design of physical work, tools, and the workplace itself. Applications to classification of work, manual materials handling, tool design, workplace design, and worker selection and training. Selected environmental conditions that alter performance (e.g., vibration, altitude, pressure variations) will be discussed.

448 Human-Machine Systems (3)

Prereq: with 407; ET 240, ENG 305J. Role of operator as subsystem in human-machine systems. Design principles for information displays, equipment controls, workplace environments, and life support systems. Design project required. 3 lec.

449 Cognitive Engineering (4)

Prereq: 448. (on demand) Addresses the human capabilities and limitations in information processing, learning, perception and attention, and applications of this knowledge to the analysis and design of human-machine interfaces in the work environment.

489 Special Investigations (1-6)

Prereq: perm.

490 Advanced Problems in Computer Applications (1-6)

Prereq: perm. Special investigations of advanced industrial and systems engineering problems involving use of digital computers.

Engineering, Mechanical (ME)**100 Introduction to Mechanical Engineering (4) (2A)**

Open to students of all majors. Introduction to the history, professional values, and methods of mechanical engineering. Lab work provides hands-on experience with engineering systems and introduces engineering design, graphical, and computer techniques of problem solving. Discussion of current areas of interest for engineering research and future prospects for technology. No specific mathematics background required.

224 Dynamics (4)

Prereq: PHYS 251, C or better in CE 220. (fall, winter, spring) Motion of particles and rigid bodies, work and energy, impulse and momentum. 4 lec.

301 Kinematics and Dynamics of Machines (4)

Prereq: C or better in 224. (winter) Analytical and graphical solutions of motion problems involving mechanical elements: linkages, gears, cams, mechanical trains, etc.

313 Metal Processing (3)

Prereq: CE 222, CHE 331, (winter) Structure of metals, mechanics of metal forming and metal cutting. Analysis of forces, energy requirements, and temperature effects. Interrelationship between metal processing and mechanical properties.

321 Introduction to Thermodynamics (4)

Prereq: PHYS 252, MATH 263C. Basic engineering thermodynamics. Definitions, first law, properties and property relations, second law, availability, and applications to engineering problems.

328 Applied Thermodynamics (4)

Prereq: C or better in 321. (spring) Nonreactive and reactive mixtures, turbomachinery, analytical studies of gas and vapor power cycles, and refrigeration. 4 lec.

350 Introduction to CAD (3)

Prereq: jr/sr, ET 240. (fall, winter) Emphasis upon use of the OU Computer Aided Design/Computer Aided Manufacturing System with the following topics covered: Engineering Design System, Engineering Modeling System, 3-D Graphics, 3-D Visualization, Solid Modeling Concepts, and other topics.

398 Junior Laboratory (3)

Prereq: 224. Introduction to measurement of various phenomena frequently encountered in mechanical engineering, e.g., strain, temperature, pressure, flow rate, displacement, and acceleration. Emphasis given to interpretation of data and preparation of laboratory reports.

400 Heating, Ventilation, and Air Conditioning (3)

Prereq: jr. Description and evaluation of heating, air conditioning, and total-energy systems employed to provide thermal environments for buildings ranging in scope from residences to integrated commercial, apartment, or industrial complexes. Covers human comfort, psychometrics, load analysis, techniques, equipment, and controls.

401 System Analysis and Control (4)

Prereq: MATH 340. (spring) Modeling and formulations of physical systems. Transient and steady-state dynamic responses, and other fundamental theory of automatic controls and applications. 3 lec, 1 lab.

403 Machine Design I (4)

Prereq: CHE 331, C or better in CE 222. (fall) Applications of mechanics, mechanisms, materials, and mechanical processes to design and selection of machine members and units of power transmission.

404 Machine Design II (4)

Prereq: 403. (winter) Morphology of engineering design. Applications of statistics and probability and techniques of optimization to design. Team design project.

406 Analysis and Design of Mechanisms (4)

Prereq: 301. Analysis and synthesis of planar and 3-dimensional mechanisms using classical and modern analytical approaches. Structural synthesis of mechanisms, dimensional synthesis of linkages for function generation, path generation, and for rigid-body guidance. Applications of matrix methods, optimization techniques, and computer solutions.

407 Fundamentals of Nuclear Engineering (4)

Nuclear engineering, including nuclear reactions, radiation detection and measurement, reactor criticality, principles of reactor control, radiation shielding, effects of radiation of materials, uses of radioactive materials.

408 Nonlinear Vibrations (3)

Qualitative and numerical study of mathematics and physics of nonlinear systems. Formulations of nonlinear engineering problems, solutions techniques, and stability analysis.

409 Advanced Engineering Dynamics (3)

Prereq: 224. Theoretical analysis and applications of dynamical aspects and problems of machines and systems.

412 Heat Transfer (4)

Prereq: MATH 340, ET 181, C or better in 321 and CE 340. (spring) Basic concepts of conduction in 1 or more dimensions, steady and transient modes. Radiation, fundamentals of convection in various modes, heat exchanger design. 4 lec.

413 Conduction and Radiation Heat Transfer (4)

Prereq: 412. Advanced analytical treatment of conduction and radiation heat transfer. Boundary value problems, orthogonal expansions, moving heat sources, multi-dimensional problems with time varying boundary conditions, finite difference analysis, conformal transformations, radiation network matrix analysis, diffuse-specular exchange, and Monte Carlo techniques, etc.

416 Combustion (3)

Prereq: 328 or 412. Introduces student to fundamentals of combustion; enables students to analyze complex combustion processes in constructive manner. Modern diagnostic techniques of combustion, and evaluation of pollution potential of different combustion processes.

417 Design of Thermal Systems (4)

Prereq: 328, 412. (fall) Design of systems in which thermodynamics, transport behavior, and optimization techniques are major considerations. Emphasis on total design approach including factors such as cost and reliability. Typical systems include power, propulsion, environmental, and cryogenic. Design project and report required.

418 Mechanical Engineering Experimentation (1)

Prereq: ME sr or grad. Instruction in experimental procedure and experience in designing and executing lab experiments. Students plan and execute their own experiments to acquire answers to assigned problems. Variety of areas covered including control systems, energy conversion, fluid flow, heat transfer, motion measurements, stress-strain. Instructional guidance provided by entire mechanical engineering staff. Provides familiarity with variety of instrumentation and procedures. Three-quarter sequence with experimental subjects phased with prerequisites.

419 Mechanical Engineering Experimentation (1)

Prereq: ME sr or grad. Continuation of 418. See 418 for description.

420 Mechanical Engineering Experimentation (1)

Prereq: ME sr or grad. Continuation of 419. See 418 for description.

422 Stirling Cycle Machine Analysis (3)

Prereq: ET 240, 328, CE 340, with 412. Analysis and simulation of Stirling cycle machines, in which the single phase working gas operates in a closed thermal power cycle. Development and use of computer simulation techniques to model the nonsteady flow conditions including thermodynamics, heat transfer, and fluid flow friction effects.

424 Gas Dynamics I (3)

Prereq: CE 340. 1- and 2-dimensional compressible flow-isentropic flow, flow with heat transfer, friction, shocks, generalized 1-dimensional flow. Applications to propulsion systems. 3 lec.

425 Propulsion Systems Analysis (4)

Prereq: 424. Applications of basic engineering disciplines to design and analysis of vehicle propulsion systems. Extensive use of digital computers. Term report required.

427 Power Station Engineering (3)

Prereq: 328 and 412. Fuels, principles of combustion, stationary boilers, grates, stokers, furnaces, coal pulverizers, economizers, preheaters, superheaters, stacks, forced and induced draft, boiler-feed pumps, heat balances, and hydro power. 3 lec.

429 Mechanics and Control of Robotic Manipulators (4)

Prereq: sr. Classification and applications for mechanical manipulator systems. Manipulator motion description, forward kinematics transformations, and solution of inverse kinematics equations. Velocity kinematics and manipulator dynamics equations. Trajectory generation and control schemes including sensory feedback. Laboratory exercises to augment lecture material. Co-listed with EE 429.

431 Atmospheric Pollution Control (4)

Prereq: CHE 302, or ME 321 and CE 340, or perm. Sources of air pollution from major industries, internal combustion engines, and other sources. Techniques for measuring particulate and gaseous pollutants in atmosphere and at their source. Current techniques and future possibilities for control of air pollution. Bases for air pollution legislation.

434 Fundamentals of Aerosol Behavior (4)

Prereq: 321 or 412. Aerosol characterization transport properties, convective and inertial deposition, light scattering and visibility, experimental methods, coagulation, gas to particle conversion, general dynamic equation for aerosols.

435 Energy Engineering and Management (3)

Basic concepts and objectives of energy management, energy audit, engineering evaluation of several energy systems, availability analysis, second law efficiency, economic evaluation, and application of these principles to case studies.

440 Direct Energy Conversion (4)

(on demand) General principles of unconventional energy conversion. Thermoelectricity, thermionics, MHD, fuel cells, photovoltaics, wind systems, solar systems, and energy storage.

446 Potential Flow Theory (3)

Prereq: CE 340. Inviscid flow theory. General equations of fluid dynamics, study of potential flow. Grad-level course open to selected undergrads.

447 Viscous Flow Theory (3)

(winter) Mechanics of fluid resistance, laminar and turbulent flow. Applications to external boundary layer flow and to flow in ducts. Grad-level course open to selected undergrads.

450 Computer-Aided Design (3)

Prereq: 350 and 403. (winter, spring) Applications of contemporary computer-modeling techniques to solve complex problems in stress, heat transfer, dynamic systems, and fluid flow. Emphasis given to applications of these techniques to solve specific problems in mechanical-engineering design.

455 Mechatronics I (4)

Prereq: 224, ET 240, with EE 314. (winter) Principles of design of computer-based, intelligent machines. Microprocessor/microcomputer fundamentals, input-output sensors and actuators, computer achievement of machine kinematics, robot-control techniques, lab experience in microprocessor-machine interfacing.

456 Mechatronics II (3)

Prereq: 301, 401, 403, 455 or equiv, EE 314. (spring) Continuation of 455. Design of intelligent machines with emphasis on design for assembly and design for adaptive tasks. Actuator characteristics and control; kinematics, dynamics, and path control of connected links; special requirements of advanced robotics tasks; optical, acoustical, and tactile sensing and control; end effector and workstation fixtures design.

460 Computer Integrated Manufacturing/Processes (4)

Prereq: 450. Introduction to numerical control: control systems for NC; communication media; NC programming languages—SPPL and APT; mathematics for NC; parametric splines, Bezier Curves, and B Splines; sculptured surfaces including Coons bi-cubic patch and B-surf.

461 Design for Manufacture (4)

Prereq: 313, 403. Elements of concurrent engineering. Design variables and their influence on manufacture. Effect of manufacturing processes on design decisions. Design for machining, forming, assembly, and inspection.

462 Manufacturing Processes (4)

The basic theory of plasticity and its application to manufacturing processes. Applied theories of metal working processes such as forging, extrusion, rolling, and some aspects of machining; theories of polymer processing, composite and reinforced materials processing use of application of materials information systems (MIS), and mapping techniques.

463 Mechanical Behavior and Metallurgy of Materials (4)

Prereq: CHE 331, sr. Relationship of mechanical properties to internal structure, i.e., both microstructure and macrostructure. Micromechanical strengthening mechanisms of metals and alloys. Elastic and plastic behavior. Fatigue and fracture behavior and mechanisms. Single crystal deformation and dislocation theory. Ductile and brittle materials testing. Plastic forming of metals. Quantitative microscopy.

470 Mechanical Engineering Design I (3)

Prereq: 328, 403. (fall) This course is the first of a three course sequence that will provide a comprehensive, capstone, senior design experience for mechanical engineering majors. Course includes studies in the analytical techniques of design, as well as the design, construction, and evaluation of the performance of an actual engineering system. ME 470, 471, and 472 must be taken consecutively. 2 lec, 2 lab.

471 Mechanical Engineering Design II (3)

Prereq: 470 (winter) This course is a continuation of ME 470 and must be taken in the quarter following the successful completion of ME 470. 2 lec, 2 lab.

472 Mechanical Engineering Design III (3)

Prereq: 471 (spring) This course is a continuation of ME 471 and must be taken in the quarter following the successful completion of ME 471. 2 lec, 2 lab.

475 Solar Design (3)

Prereq: jr/sr, MATH 263C, PHYS 253, or equiv. Introduction to theoretical principles and practical design aspects of solar energy systems. Topics covered include principles of radiation; heating load computation; air and liquid, flat-plate collectors; concentrating collectors; energy storage; photovoltaic conversion; economic analysis.

480 Colloquium (1)

Prereq: sr. Open presentation of individual engineering analysis or design effort. Requires demonstration of individual analytical or design ability, knowledge of engineering fundamentals (including passing a mini-fundamentals of engineering test), and satisfactory oral presentation techniques.

484 Projects in Thermal Machinery (3)

Research in thermal machines. Individual work on experimental or analytical project involving current problems. Training in use of library, theory and use of instruments, error analysis, planning of experiments, effective report writing. Students should take two-term sequence to allow adequate time for completion of meaningful project. Report required.

485 Projects in Thermal Machinery (3)

Continuation of 484. See 484 for description.

486 Projects in Thermal Machinery (3)

Continuation of 484–485. See 484 for description.

489 Special Investigations (1–6)

Prereq: perm.

491 Mechanical Vibrations I (4)

Prereq: C or better in 224, MATH 340, ET 240, sr. (fall) Characteristic phenomena of mechanical vibrations encountered in machines and structures (of 1 degree of freedom) and their quantitative investigation. Simple harmonic motion; free, transient, and forced vibrations; and damping effects.

492 Mechanical Vibrations II (4)

Prereq: C or better in 491. (spring) Application of matrix methods; 2 degrees of freedom systems; lumped mass systems with several degrees of freedom, and methods for normal mode determination. 4 lec.

493 Lubrication and Bearing Analysis (3)

Concepts of boundary, hydrostatic, and hydrodynamic lubrication. McKee, and Boyd and Raimondi methods. Solid lubrication, porous bearings, and gas bearings.

494 Advanced Machine Design (3)

Advanced considerations in design and analysis of machine members, strength under combined stress, thermal stress, fatigue in metals, and design using plastics. 3 lec.

495 Introduction to Kinetic Theory and Statistical Thermodynamics (4)

Kinetic theory, classical and quantum statistical mechanics with applications to engineering devices. 3 lec.

496 Experimental Methods in Design (3)

Prereq: 403. Investigation and evaluation of experimental methods that may be used to obtain design and performance data. Techniques of photoelasticity, strain measurements, and vibration measurement.

497 Methods of Engineering Analysis I (4)

Prereq: MATH 340. (fall) Applications of matrices, Fourier series, partial differential equations, and Bessel functions.

498 Senior Laboratory (3)

Prereq: 398, 412, 403 or concurrent. Mechanical engineering experiments. Measurement of the behavior of more complex systems encountered in mechanical engineering. Equal emphasis given to mechanical systems and to thermal and fluid systems. Engines, vibrating systems, wind-tunnel experiments, refrigeration systems, fatigue, multidimensional stresses, and combustion are typical subjects for investigation.

499 Senior Design Project (4)

Prereq: 404 or 417, and perm. Capstone design project in mechanical engineering. Self directed or group project which requires typical design activities such as decision making, feasibility evaluation, technical analysis, performance summary, technical report preparation, and oral technical presentation. Projects may be individually arranged with a faculty member in mechanical engineering or a group project (current examples are the Mini Baja Vehicle Contest or the Walking Robot Contest). Subject matter can be mechanisms, thermal/fluid systems, control systems, etc. Oral final presentation to senior class and panel of faculty required.

Engineering and Technology (ET)

181 Computer Methods in Engineering I (4)

Prereq: MATH 263A or 163A, preference given to ET or pre-engineering majors. Introduction to application of digital computation for solution of engineering problems, with emphasis on methodology and organization. Problem formulation and programming using the C language in an interactive network environment.

190 Cooperative Education**Field Experience I (1)**

Prereq: perm. Required of, and limited to, students on approved co-op work assignments. Prior approval required before a student registers. Credit earned is not applicable toward specific degree requirements, but will accumulate in the student's academic credit total. In addition to continual monitoring of student's progress by the cooperative education coordinator and the faculty advisor, participating students are required to submit a final report of their activities.

240 Computer Methods in Engineering II (4)

Prereq: C or better in 181 and MATH 340 or with 340. Introduction to application of digital computation techniques to engineering problems including applied numerical methods. Study and use of C-language as an analytical tool. Utilization of common computer peripheral equipment.

280 Engineering and Technology—Overview (4) (2A)

Intended for students of all majors; non-Engineering Technology students are encouraged. Provides an overview of engineering and technology, to place the profession in a historical context, to examine the views of supporters and detractors, to examine moral and ethical issues associated with the profession in society, and to develop an appreciation for the manner in which engineering and technological work is conducted. Emphasizes a "problem-solving" approach to questions of all kinds, but more specifically to technological ones.

290 Cooperative Education Field Experience II (1)

Prereq: perm. See 190.

320 History of Western Technology (3) (2A)

Survey of significant technological innovations of Western civilization from Greco-Roman period into 20th century. Interrelationships, in history, between technology and society. Background in technology or science not required.

322 Introduction to Materials Behavior (3)

Introductory materials science course covering behavior of metals, polymers, and ceramics for nontechnical majors.

325 Pollution Solutions I (3)

Understanding current air pollution problems, their causes, effects, and possible solutions and impact of those solutions on society.

326 Pollution Solutions II (3)

Same course description as 325 covering different aspects and topics. Not a continuation of 325.

331 Fluid Dynamics for Nonengineers (3)

Prereq: jr. Not open to engineering students. Physical, not mathematical, introduction to principles controlling fluid motions in our environment. Study of weather, flood circulation, aerodynamics, river hydraulics, and rocketry through design of golf balls and plumbing systems included. Introduction to mechanics, fluid properties, fluids at rest and in motion. Lectures and reading assignments supplemented with films.

334 Water Pollution Control (3)

Prereq: soph, nonengineering students. Designed for student with limited technical background but who is interested in problems of water pollution. Deals with nature of water, source and character of pollutants, technology of wastewater renovation, ecology of water pollution, and legal, economic, and administrative constraints.

337 Transportation Today (3)

Prereq: jr or perm, not open to civil engineering majors. Designed for student with limited technical background who is interested in gaining knowledge in area of highway and transportation planning and design. Major topics include geometric factors, traffic studies, modes of transportation, human equation, and planning strategies.

350 Engineering and the Technological Society (3) (2A)

Prereq: jr or sr. Technical inventions and social inventions, impact and social consequences of engineering public policy issues, ethical considerations, and some exploration of alternative futures. Discussion and lecture format used.

**390 Cooperative Education
Field Experience III (1)**

Prereq: perm. See 190.

**400 Professional Engineering
Fundamentals Review (2)**

Prereq: sr. Review of basic engineering principles. Provides a compact review of basic engineering principles and illustrated by practical solutions.

445 Advanced Numerical Methods (4)

Prereq: ME 497 or equiv. (winter) Numerical methods for solution of ordinary and partial differential equations, stability considerations and error estimates, application to variety of engineering problems, numerical method of lines and integration procedures for stiff ODE systems.

470 Energy and the Environment (3) (2A)

(on demand) Technical, economic, political, and environmental factors in energy production. Conventional, gasification, synfuels, fission, fusion, solar, wind, and possible future conversion techniques. Course designed to provide understanding needed for intelligent participation in societal decisions related to energy issues. (Equiv to MATH 445.)

**490 Cooperative Education
Field Experience IV (1)**

Prereq: perm. See 190.

495 Leadership Seminar (3)

Prereq: ET major, perm. Through selected readings, class presentations, discussions, and case studies, students will seek an understanding of leadership and its importance and effectiveness in achieving goals with followers. Successful leaders in engineering and other fields will visit the class and share their knowledge of leadership. Several written reports and oral presentations on leadership case studies will be required during the term.

English (ENG)**150 Developmental Writing Skills (4)**

Prereq: placement or recommendation. Credit for 150 will not be given to any student who has already passed any other English course. Develops skills through attention to coherence, mechanics, syntax, and writing conventions. Does not satisfy Tier I or Arts and Sciences humanities requirement. (Nonnative speakers take 150A.)

**151 Freshman Composition:
Writing and Rhetoric (5) (1E)**

Prereq: fr or soph only; 150, or 151 placement into requested or earlier quarter or into 152/3. Practice in composing and revising expository essays which are well organized, logically coherent, and effective for their purpose and audience. Topics from personal experience or nonfiction reading. (Nonnative speakers take 151A.)

**152 Freshman Composition:
Writing and Reading (5) (1E)**

Prereq: fr and soph only. Same as 151, except that topics are developed from reading and discussion of fiction, poetry, and/or drama.

**153 Freshman Composition:
Special Topics (5) (1E)**

Prereq: fr and soph only. Similar in structure and purpose to 152, but topic and texts of each section are selected by instructor. Specific course description with text lists advertised quarterly in Ellis Hall.

**153A Freshman Composition: Special Topics
Men and Women in Literature (5) (1E)**

Prereq: fr and soph only. Same as 152 except that topics are developed from readings depicting women and men in literature. Students examine and write about how, in both literature and life, women and men see themselves and each other, how people learn what society expects of them, and about such topics as sexuality, marriage, friendship, and rebellion against culturally imposed sexual roles.

**153B Freshman Composition: Special Topics
African American Experiences
in Literature (5) (1E)**

Prereq: fr and soph only. Same as 152, except that topics are developed from readings examining various experiences of African Americans in America, from earlier writings up to and emphasizing contemporary literature, including fiction, poems, essays, and autobiographies.

200 Introduction to Literature (4) (2H)

Prereq: 151 or 152 or 153 or 153A/B. Approaches to reading and interpreting fiction, poetry, and drama using skills, techniques, and language of interpretation. Intended for nonmajors.

201 Critical Approaches to Fiction (4)

Prereq: 151 or 152 or 153 or 153A/B. Close textual analysis of fiction, development of critical vocabulary, and introduction to the variety of current methods of responding to literature. Intended for majors.

202 Critical Approaches to Poetry (4)

Prereq: 151 or 152 or 153 or 153A/B. Close textual analysis of poetry, development of critical vocabulary, and introduction to the variety of current methods of responding to literature. Intended for majors.

203 Critical Approaches to Drama (4)

Prereq: 151 or 152 or 153 or 153A/B. Close textual analysis of drama, development of critical vocabulary, and introduction to the variety of current methods of responding to literature. Intended for majors.

203A Interpretation of Drama (Film) (4)

Prereq: 151 or 152 or 153 or 153A/B. Critical study of film and literature, e.g., film adaptations of literary classics, films made by literary authors, etc. May not be taken to fulfill major requirement of two courses from 201, 202, 203.

**204 Introduction to International Literature
I: The Classical Tradition (4) (2H)**

Prereq: one course above 199. Texts which exemplify the classical sensibility in Western literature.

**205 Introduction to International Literature
II: Romantic Tradition (4) (2H)**

Prereq: one course above 199. British, American, and Continental texts which exemplify the Romantic tradition in Western literature.

**206 Introduction to International Literature
III: The Modern Tradition (4) (2H)**

Prereq: one course above 199. Texts which express the modern sensibility in Western literature.

**210 Critical Approaches
to Popular Literature (4)**

Prereq: one course above 150. Introduction to techniques and criticism in works where serious and popular literature meet, e.g., mysteries, science fiction, westerns.

**270 Special Studies: Individual or
Comparative Authors (2-3)**

Prereq: one course above 150. Intensive study of individual or comparative authors: (A) Medieval, (B) Renaissance, (C) Restoration and 18th century, (D) 19th-century American, (E) 19th-century British, (F) 20th-century American, (G) 20th-century British, (H) Continental.

**271 Special Studies: Selected Themes
or Topics in Literature (2-3)**

Prereq: one course above 150. Intensive study of selected theme or topic: (A) poetry, (B) fiction, (C) drama, (D) comparative genres, (E) language, (F) stylistics and rhetoric, (G) literature and film, (H) gay and lesbian, (I) man and books.

277T English Tutorial (1-10)

Prereq: approval from Department of English tutorial director; arts and sciences major. Fall quarter, first year.

278T English Tutorial (1-10)

Prereq: approval from Department of English tutorial director; arts and sciences major. Winter quarter, first year.

**280 Expository Writing
and the Research Paper (4)**

Prereq: one course above 150. Practice in library research, techniques of documentation, and writing research papers.

297T English Tutorial (1-15)

Prereq: HTC student. Fall quarter, first-year course in two-year tutorial sequence.

298T English Tutorial (1-15)

Prereq: HTC student. Winter quarter, first-year course in two-year tutorial sequence.

299T English Tutorial (1-15)

Prereq: HTC student. Spring quarter, first-year course in two-year tutorial sequence.

301 Shakespeare: The Histories (4)

Prereq: two courses from 201, 202, 203 or jr or sr.

302 Shakespeare: The Comedies (4)

Prereq: two courses from 201, 202, 203 or jr or sr.

303 Shakespeare: The Tragedies (4)

Prereq: two courses from 201, 202, 203 or jr or sr.

304 English Bible (4)

Prereq: one course above 150. Selected prose and poetry of the Hebrew and Christian scriptures.

305J Technical Writing (4) (1J)

Prereq: jr and completion of first-year composition. Preparing clear, functional reports; presenting data for experts and other specialized audiences. Documents include, but are not limited to, proposals; information reports (progress, feasibility, inspection, completion); and descriptions of mechanisms and technical processes.

306J Women and Writing (4) (1J)

Prereq: jr and completion of first-year composition. Practice in developing essays on women and their interests, on women and writing, and on gender issues.

**307J Writing and Research
in English Studies (4) (1J)**

Prereq: jr or sr; two courses from 201, 202, 203. Scholarly writing in English studies: research reports, integration of primary and secondary texts, library resources, and MLA/Chicago documentation. Prerequisite for ENG 399, which is required of all English majors.

308J Advanced Composition (4) (1J)

Prereq: jr or sr and completion of first-year composition. Focuses on skills in writing expository prose, with regular practice and evaluation supplemented by attention to published prose and concepts of rhetoric and style.

Note: Majors must complete 307J before taking more than two of the following eight survey courses.**311 English Literature to 1500 (4)**

Prereq: two courses from 201, 202, 203. Authors, works, and genres of Old and Middle English literature.

- 312 English Literature: 1500–1660 (4)**
Prereq: two courses from 201, 202, 203. Authors, works, and genres of Renaissance English literature.
- 313 English Literature: 1660–1800 (4)**
Prereq: two courses from 201, 202, 203. Authors, works, and genres of Restoration and 18th-century English literature.
- 314 English Literature: 1800–1900 (4)**
Prereq: two courses from 201, 202, 203. Authors, works, and genres of Romantic and Victorian English literature.
- 315 English Literature: 1900 to Present (4)**
Prereq: two courses from 201, 202, 203. Authors, works, and genres of 20th-century British literature.
- 321 American Literature to 1865 (4)**
Prereq: two courses from 201, 202, 203. Authors, works, and genres of American literature from the colonial period through the Civil War.
- 322 American Literature: 1865–1918 (4)**
Prereq: two courses from 201, 202, 203. Authors, works, and genres of American literature from the end of the Civil War to the end of World War I.
- 323 American Literature: 1918 to Present (4)**
Prereq: two courses from 201, 202, 203. Authors, works, and genres of American literature from the end of World War I to the present.
- 325 Women and Literature (4)**
Prereq: one course above 199 and jr or sr. Surveys work of significant women writers of the past.
- 327 African-American Fiction (4)**
Prereq: one course above 150. A selection of major fiction by African-American authors.
- 328 African-American Poetry (4)**
Prereq: one course above 150. A selection of major poetry by African-American authors.
- 329 African-American Drama (4)**
Prereq: one course above 150. A chronological survey of major drama by African-American authors.
- 331 Studies in Asian Literature (4) (2C)**
(fall) Introduction to cultural background of Asian literature.
- 332 Studies in Asian Literature (4) (2C)**
(winter) Continuation of 331. Study of classical Asian literature.
- 333 Studies in Asian Literature (4) (2C)**
(spring) Continuation of 332. Study of modern Asian literature.
- 335 The Ohio University Writers (4)**
Faculty writers at OU visit classrooms to read and discuss their works.
- 336 McGuffey Lectureship in Literature (1–4)**
Prereq: one course above 150. Special series of lectures by current McGuffey Visiting Professor of English. Lectures offered determine credit hrs assigned.
- 342 English and Continental Literature (4)**
Prereq: one course above 150. Authors, themes, and genres in English and European literature.
- 349 History of Books and Printing (4)**
Prereq: one course above 150. Introduction to history of the book and its place in development of Western culture from ancient world to present. Approach is primarily historical, cultural, and aesthetic.
- 350 Traditional Grammar, Mechanics, and Usage (4)**
Prereq: one course above 150. Grammatical understanding and awareness of relationships in sentence structure, usage, and punctuation.
- 351 The History of the English Language (4)**
Prereq: jr or sr. Course examines changes affecting English; sound patterns, grammatical forms, vocabulary, and semantic values.
- 352 The Development of American English (4)**
Prereq: jr or sr. Regional and social varieties of American English.
- 353 The Structure of American English (4)**
Prereq: jr or sr. Study of English grammar using a linguistic model chosen from contemporary linguistic theories.
- 361 Creative Writing: Fiction (4)**
Prereq: 200 or 201. Beginning course in writing short fiction with emphasis on invention, craft, and criticism of student writing and published fiction.
- 362 Creative Writing: Poetry (4)**
Prereq: 200 or 202. Beginning course in writing poetry with emphasis on invention, craft, and criticism of student writing and published poetry.
- 363 Creative Writing: Nonfiction (4)**
Prereq: 200 or 201. Beginning course in writing nonfiction with emphasis on invention, craft, and criticism of student writing and published nonfiction.
- 377T English Tutorial (1–10)**
Prereq: approval from Department of English tutorial director; arts and sciences major. Spring quarter, first year.
- 378T English Tutorial (1–10)**
Prereq: approval from Department of English tutorial director; arts and sciences major. Fall quarter, second year.
- 393 Creative Writing Workshop: Short Story (4)**
Prereq: 361. Instruction and practice in fiction writing, concentrating on narrative, character, and setting.
- 394 Creative Writing Workshop: Poetry (4)**
Prereq: 362. Instruction and practice in poetry writing.
- 395 Creative Writing Workshop: Nonfiction (4)**
Prereq: 363. Instruction and practice in writing nonfiction prose, with attention to fictionalized biography and literary essays.
- 397T English Tutorial (1–15)**
Prereq: HTC student. Fall quarter, second-year course in two-year tutorial sequence.
- 398T English Tutorial (1–15)**
Prereq: HTC student. Winter quarter, second-year course in two-year tutorial sequence.
- 399 Literary Theory (4)**
Prereq: two courses from 201, 202, 203; 307J; two courses from 310–323. Required of majors before 460, 464, 465, and 466. Recent issues in literary theory and the study of literary texts.
- 399T English Tutorial (1–15)**
Prereq: HTC student. Spring quarter, second-year course in two-year tutorial sequence.
- 430 American Literature (3)**
Prereq: enrollment in Inst. Amer. Cult. Modern and contemporary American literature as part of the annual summer Institute in American Culture for Austrian Students and Teachers.
- 441 Colloquium (4)**
Prereq: sr. (fall) Specific interdisciplinary problems to be assigned each quarter.
- 442 Colloquium (4)**
Prereq: sr. (winter)
- 443 Colloquium (4)**
Prereq: sr. (spring)
- 445 Special Studies (4)**
Prereq: sr.
- 447 Studies in Criticism (4)**
Prereq: sr. Problems in critical theory.
- 451 Teaching Language and Composition (3)**
Prereq: sr, advanced standing in professional education. Content and methods of presentation for teaching language and composition in high school. Not applicable to Arts and Sciences 200-level requirement.
- 451L Field Experience in Secondary English/Language and Composition (1)**
Prereq: sr; concurrent with 451. Field experience to provide practical applications of materials, methods, and techniques of language and composition instruction as appropriate in various secondary school settings. Students will observe classroom teachers and carry out various instructional tasks as the cooperating teachers deem appropriate.
- 452 Teaching Literature (3)**
Prereq: sr, advanced standing in professional education. Content and methods of presentation for teaching literature in high school. Not applicable to Arts and Sciences 200-level requirement.
- 452L Field Experience in Secondary English/Literature (1)**
Prereq: sr; concurrent with 452. Field experience to provide practical application of materials, methods, and techniques of literature instruction as appropriate in various secondary school settings. Students will observe classroom teachers and carry out various instructional tasks as the cooperating teachers deem appropriate.
- 453 Studies in World Literature (4)**
Prereq: 399, and sr. Examines contemporary world literature with an emphasis on non-Western texts (i.e., African, Indian, Latin American, Eastern European, etc.) to let students explore various cultural voices. Investigates cultural diversity through close analysis of texts. Addresses current literary discussions on decolonization, the postcolonial condition, eurocentrism, displacement, and multiculturalism. Intended for students in secondary education program. (Integrated Language Arts).
- 455 English Education Workshop (1–5)**
Prereq: teaching certificate or equiv, or perm. Studies in principles, problems, approaches, and issues in teaching English from elementary school to post-secondary. Topics vary.
- 456 Readings in Children's Literature (4)**
Prereq: one course above 199. Historical development of children's literature; philosophical and aesthetic bases.
- 457 Readings in English Education (4)**
Prereq: jr or sr. Recent developments in English education and application to teaching of jr and sr high school English.
- 460 Literary Topics (4)**
Prereq: 399 and sr. Concentrated attention to one literary topic, e.g., a genre, theme, rhetoric, or literary theory. Topics are announced quarterly in the departmental course description booklet available in Ellis Hall.
- 464 Major English Authors (4)**
Prereq: 399 and sr. Authors to be studied vary section to section, quarter to quarter, and are announced quarterly at preregistration in the departmental course description booklet available in Ellis Hall.
- 465 Major American Authors (4)**
Prereq: 399 and sr. Authors to be studied vary section to section, quarter to quarter, and are announced quarterly at preregistration in the departmental course description booklet available in Ellis Hall.
- 466 Major International Authors (4)**
Prereq: 399 and sr. Authors to be studied vary section to section, quarter to quarter, and are announced quarterly at preregistration in the departmental course description booklet available in Ellis Hall.

477T English Tutorial (1-10)

Prereq: approval from Department of English tutorial director; arts and sciences major. Winter quarter, second year.

478T English Tutorial (1-10)

Prereq: approval from Department of English tutorial director; arts and sciences major. Spring quarter, second year.

481 Form and Theory of Literary Genres: Fiction (4)

Prereq: 8 hrs creative writing. Theoretical considerations of fiction.

482 Form and Theory of Literary Genres: Poetry (4)

Prereq: 8 hrs creative writing. Theoretical considerations of poetry.

483 Form and Theory of Literary Genres: Nonfiction (4)

Prereq: 363, 395, and perm. Theoretical considerations of nonfiction.

486 Advanced Workshop in Fiction (4)

Prereq: 393 and perm in advance.

487 Advanced Workshop in Poetry (4)

Prereq: 394 and perm in advance.

490 Independent Reading (1-15)

Prereq: perm. Directed individual reading and research.

497T English Tutorial (1-15)

Prereq: HTC student. (fall) Thesis.

498T English Tutorial (1-15)

Prereq: HTC student. (winter) Thesis.

499H Honors Project (5-15)

Prereq: perm. Completion of individual writing project for A.B. with honors in English.

499T English Tutorial (1-15)

Prereq: HTC student. (spring) Thesis.

Humanities (HUM)**107 Humanities—Great Books (4) (2H)**

Prereq: fr and soph only. (fall) Ancient classics of Western civilization (Greek, Roman, Biblical) leading toward understanding of cultural heritage. Guidance in critical thinking, reading, and writing about those works.

108 Humanities—Great Books (4) (2H)

Prereq: fr and soph only. (winter) Medieval and Renaissance classics of Western civilization. See 107 for further description.

109 Humanities—Great Books (4) (2H)

Prereq: fr and soph only. (spring) Modern classics of Western civilization (18th–20th centuries). See 107 for further description.

117 Humanities—Great Books of the Orient (4) (2H)

Prereq: fr and soph only. Masterpieces (both ancient and modern) of India, China, and Japan, leading toward understanding of Oriental culture.

307 Humanities—Great Books (4)

Prereq: jr and sr only. (fall) Ancient classics of Western civilization (Greek, Roman, Biblical) leading toward understanding of cultural heritage. Guidance in critical thinking, reading, and writing about those works. (Not recommended for students who have taken 107.)

308 Humanities—Great Books (4)

Prereq: jr and sr only. (winter) Same as 307 but medieval and Renaissance classics of Western civilization.

309 Humanities—Great Books (4)

Prereq: jr and sr only. (spring) Same as 307 but modern classics of Western civilization (18th–20th centuries).

Environmental and Plant Biology (PBIO)**100 The World of Plants (4) (2N)**

(fall, spring) *J. Braselton, A. Trese*. For nonscience majors. Survey of variety of plants and how they affect and are affected by humans. 4 lec.

100L The World of Plants with Laboratory (5) (2N)

(fall, spring) *J. Braselton, A. Trese*. Same lecture as 100 with additional laboratory to provide practical experience with plants and topics discussed in lecture. 4 lec, 2 lab.

102 Plant Biology (5) (2N)

(fall, winter) For nonscience majors. Not offered on the Athens campus. Structure of seed plants as related to function. Survey of plants, with emphasis on life histories, reproduction, and relationships of selected plant groups. Credit not allowed for both 102 and 111. 4 lec, 2 lab.

103 Plants and People (4) (2A)

H. Ballard, J. Salick, A. Trese, M. Vis-Chiasson. Interrelationships of plants and humans from both historical and modern points of view, origins of agriculture and civilization, tropical and temperate food plants, medicinal plants, drug plants, destruction of environment, and its ultimate effect on food plants. 3 lec, 1 disc.

110 Introduction to Plant Biology (6) (2N)

(fall, winter) *J. Mitchell*. For plant biology and other science majors, preprofessional students, and science modular students. Introduction to fundamental biological principles as they affect plant science. Reproduction of plants and cells, structure and function of cells and cell organelles, classical and molecular genetics, plant growth and development, evolution, and ecology. Credit not allowed for both 110 and any of the following: BIOL 101; BOT 101; ZOOL 101; BOT 110; ZOOL 150; ZOOL 170; BIOS 170. 4 lec, 4 lab.

111 Introduction to Plant Biology (6) (2N)

Prereq: 110 or BIOS 170. (winter, spring) *P. Cantino, G. Rothwell*. For plant biology and other science majors, preprofessional students, and science modular students. Survey of plants, with emphasis on systematics, evolutionary relationships, life histories, and reproduction of representative plant groups; introduction to morphology and anatomy of vascular and nonvascular plants. Credit not allowed for both 102 and 111. 4 lec, 4 lab.

217 Women in Science (4)

Prereq: ENG 151, 152, or 153. (spring) *G. Mapes*. The lives and discoveries of women scientists worldwide from 1800 to present are examined through biographies, films, speakers, personal interviews, lectures, writing, and discussion. Historical and current trends, including traditional and feminist methodologies, are considered for the sciences, science education, and society. No majors credit; does not satisfy Arts and Sciences area distribution requirements. Same as BIOS 217.

220 Woody Plants (4)

(summer) Not intended for plant biology majors. Introduction to identification of woody plants, and to the use of keys in plant identification. Credit not allowed if 248 completed. 2 lec, 4 lab.

225 Flowers (4)

(summer) Not intended for plant biology majors. Identification of local flowers and discussion of the role of flowers in their natural environments. Credit not allowed if 309 completed. 2 lec, 4 lab.

247 Vegetation of North America (4)

Prereq: 1 course in BIOL, BIOS, MICR, or PBIO. (winter) *I. Ungar*. Illustrated lecture course

considering extensive plant formations with relationship to climate, soil, geographic formations, and influence of humans. 4 lec.

248 Trees and Shrubs (Dendrology) (4)

Prereq: 111 or 102. (fall) *P. Cantino*. Collection, identification, nomenclature, classification, ecological relationships, and importance to humans of native and introduced woody plants. 2 lec, 4 lab, supplementary field trips.

297T Plant Biology Tutorial (1-15)

Prereq: Tutorial college. (fall)

298T Plant Biology Tutorial (1-15)

Prereq: Tutorial college. (winter)

299T Plant Biology Tutorial (1-15)

Prereq: Tutorial college. (spring)

303 Medicinal Plants of Ohio (3)

(summer) *J. Cavender*. Summer workshop. Identification, history, and uses of medicinal plants; characteristics of herb families; preparation of simple herbal remedies. Field trips to conifer woods, flood plain, cove forest, swamp, and commercial herb-growing establishment. 3 lec.

307 Morphology of Algae and Bryophytes (6)

Prereq: 111 or 102. (spring, odd years) *M. Vis-Chiasson*. Comparative studies of structure, evolutionary relationships, life histories, and reproduction of selected representatives of major groups of algae and bryophytes. 4 lec, 4 lab.

308 Morphology of Vascular Plants (6)

Prereq: 111 or 102. (fall) *G. Rothwell*. Diversity of vascular plants as reflected by structural, developmental, and reproductive features of major groups; emphasis on evolution of diversity through systematically significant adaptations. 3 lec, 6 lab.

309 Plant Systematics and Ohio Flora (6)

Prereq: 111 or 102. (spring) *P. Cantino*. Principles and methods of systematics and taxonomy; classification, floral biology, and evolution of flowering plants. Lab: identification and classification of spring flora. 3 lec, 6 lab, field trips.

310 Biology of Fungi (5)

Prereq: 111 or 102. (fall) *J. Cavender*. Morphology and life history studies of selected fungi of major groups; collection, isolation, and growth of selected fungi; fungal activities. 3 lec, 4 lab.

311 Biology and Human Affairs (4)

Prereq: 1 course in BIOL, BIOS, MICR, or PBIO. (winter, odd yrs) *J. Cavender*. Discussion of impact of modern biology upon human problems in biological, social, moral, and political areas. No credit toward major. 4 lec.

312 Plant Anatomy (5)

Prereq: 111 or 102. (winter, even yrs) *G. Rothwell*. Structure, development, and systematic anatomy of vascular plants. 3 lec, 4 lab.

313 Special Topics in Plant Biology (1-6)

Current and/or special topics in plant biology.

313B Supervised Study (1-3)

Prereq: plant biology majors.

321 Agricultural Plant Ecology (4)

Prereq: jr. (fall) *J. Salick*. Ecological studies of agriculture from basic environmental and organismal interactions to world hunger and population. Field experience provided on farms. 3 lec, 3 lab.

322 Tropical Plant Ecology (4)

Prereq: 110 or BIOL 101 or BIOS 170; jr. (spring) *J. Salick*. Tropical rain forest studies around the world, including basic plant ecology, conservation, and management. 4 lec.

331 Plant Genetics (5)

Prereq: 111 or 102. (winter) *A. Trese*. Basic principles of genetics as they relate to plants, including transmission, expression, and evolution of genetic materials. 5 lec.

360 Field Experience in Elementary or Secondary Schools, or Equivalent (2)

Prereq: jr. (winter) *J. Braselton*. Observation and participation in elementary and secondary schools, or the equivalent. Approval must be secured from the 368 instructor prior to enrollment. Concurrent registration in 360 and 368 suggested. May be repeated. 4 lab.

368 Teaching of Biology (4)

Prereq: 18 hrs biology. (winter) *J. Braselton*. Discussion, demonstration, and practice of goals and skills in biological teaching. Written and verbal evaluation and criticism of journals, texts, and A-V programs. Analysis and criticism of lab experiments. 2 lec, 4 lab.

397T Plant Biology Tutorial (1-15)

Prereq: Tutorial college. (fall)

398T Plant Biology Tutorial (1-15)

Prereq: Tutorial college. (winter)

399T Plant Biology Tutorial (1-15)

Prereq: Tutorial college. (spring)

404 Undergraduate Research (2-6, max 12)

Prereq: 24 hrs plant biology. Independent research under supervision of faculty member.

410 Plants and Soil (4)

Prereq: 111 or 102; 2 qtrs chemistry. (winter, even years) *J. Cavender*. Soil as environment for plant growth; interrelationships between plant and soil; role of soil organisms in cyclic processes; building and maintenance of soil fertility; relationships between soil and health of plants, animals, and humans. 3 lec, 2 lab.

411 Integrative Tropical Plant Biology (4)

Prereq: jr or sr. (winter) *J. Cavender*. Field course of tropical plants in Belize/Guatemala important in sustainable food/fiber/medicine production and ecosystem stability. 2 lec, 6 lab.

412 Plant Pathology (5)

Prereq: jr or sr majors in PBIO, BIOS, or MICR. (spring, even years) *A. Trese*. Diseases of plants; history, types of pathogens and disease cycles, impact in nature and agriculture, disease control strategies. Isolation and identification of pathogens. 3 lec, 4 lab.

415 Quantitative Methods in Plant Biology (5)

Prereq: PSY 221; 24 hrs of PBIO courses. (winter) *B. McCarthy*. Lecture: biostatistics and applications in the plant sciences; scientific method, hypothesis testing, and design of experiments; sampling, data analysis, regression and correlation, analysis of variance, and parametric and nonparametric statistics. Lab: microcomputer applications in spreadsheet analysis, statistics, and graphics. 3 lec, 4 lab.

420 Phycology (5)

Prereq: 111 or 102. (spring, even years) *M. Vis-Chiasson*. Taxonomy and ecology of marine and freshwater algae, with emphasis on identification and distribution of common or representative genera. 3 lec, 4 lab.

424 Plant Physiology (6)

Prereq: 111 or 102; organic chemistry recommended. (winter) *I. Smith*. Basic chemical and physical aspects of plant processes; photosynthesis, respiration, mineral nutrition, transport, nitrogen metabolism, water relations, and growth. 3 lec, 6 lab.

425 Plant Ecology (5)

Prereq: jr or sr. (fall) *B. McCarthy, I. Ungar*. Effect of environmental factors as related to structure and function of plant communities. 3 lec, 4 lab, 1 Saturday field trip.

426 Physiological Plant Ecology (5)

Prereq: 425. (spring) *I. Ungar*. Analysis and interpretation of ecological problems. 3 lec, 4 lab, 1 Saturday field trip.

427 Molecular Genetics (3)

Prereq: 331 or 431 or BIOS 325; organic chemistry. (spring) *A. Showalter*. Genetic fine structure and function at the molecular level; biochemical aspects of heredity in micro-organisms, plants, and animals; recombinant DNA and genetic engineering. 3 lec.

431 Cell Biology (5)

Prereq: 111 or BIOS 171, 173. (fall) *J. Mitchell, A. Trese*. Structure and function of cells, organelles, and cellular inclusions. 3 lec, 4 lab.

432 Microtechnique (5)

Prereq: sr. (upon sufficient demand) *J. Braselton*. Preparation of plant tissues for microscopic study. 6 lab.

450 Biotechnology and Genetic Engineering (4)

Prereq: 110 or BIOS 170. (fall) *A. Showalter*. For upper level undergraduate students. Introduction to basic molecular biological concepts and techniques in biotechnology and genetic engineering, including discussion of current experimentation and progress in these fields. 4 lec.

453 Developmental Physiology (4)

Prereq: 111. (spring, odd years) *J. Mitchell*. Growth and development in flowering plants. Topics include cell growth and differentiation in developing meristems; tissue and organ development in culture; dormancy and germination; flower induction; seed formation; growth regulators; and senescence. 4 lec.

460 Paleobotany (6)

(winter, odd yrs) *G. Rothwell*. Morphology and evolution of representative fossil plant groups. 3 lec, 6 lab.

475 Plant Speciation and Evolution (3)

Prereq: jr or sr majors in PBIO, BIOS, or MICR. (winter) Principles of evolution of plants and current topics in evolutionary biology. 3 lec.

497T Plant Biology Tutorial (1-15)

Prereq: Tutorial college. (fall)

498T Plant Biology Tutorial (1-15)

Prereq: Tutorial college. (winter)

499T Plant Biology Tutorial (1-15)

Prereq: Tutorial college. (spring)

Environmental Engineering Technology (EVT)

The following courses for the A.A.S. in environmental engineering technology are available only on the Chillicothe campus.

100 Introduction to Environmental Engineering Technology (3)

Topics include toxicology, air pollution, groundwater contamination, transportation of hazardous materials, waste characterization, waste management, and waste treatment and disposal, with discussion of how regulations affect each.

110 Computational Methods in Environmental Engineering Technology (3)

Emphasizes the principles of data treatment, including experimental error recognition, statistical analysis, and graphical data techniques using up-to-date computer software. Computers and programmable calculators will be required for writing lab reports. 3 lec, 2 lab.

115 Legal Aspects of Environmental Engineering (2)

Introduction to legal aspects of the rights and duties of the individual, business, and society with regard to the environment, and the consequences of future environmental legislation. Investigates environmental legislation and regulations and examines case studies highlighting the existing laws.

120 Introduction to Environmental Chemistry (3)

Prereq: CHEM 121 or 151. Environmental chemistry as applied to aquatic, atmospheric, soil, and hazardous waste systems. Topics include environmental chemical cycles; aquatic, atmospheric, and soil chemistry; environmental chemistry of hazardous wastes; and toxicology. 2 lec, 2 lab.

125 HAZWOPER Training (3)

Provides certification required to work on a majority of environmental cleanup sites. Covers regulatory obligations, handling hazardous materials, personal protective equipment, monitoring instrumentation, emergency response, site control, medical assessment, confined space entry, and respiratory protection. 3 lec, 2 lab.

125L HAZWOPER Training Laboratory (1)

Emphasizes handling hazardous materials with use of personal protective equipment, instrumentation, and equipment. Outdoor simulations and demonstrations included. 3 lab.

140 Introduction to Air Pollution (3)

Prereq: 110; CHEM 121 or 151. Principal types; sources; dispersion; effects; and physical, economic, and legal aspects of controlling atmospheric pollutants. Emphasizes atmospheric chemical reactions due to air pollutant emissions.

150 Instrumentation in Environmental Analysis (3)

Prereq: 110; CHEM 121 or 151. Provides foundation for understanding principles behind instrumentation used for environmental analysis. Gas chromatographs, mass spectrometers, infrared spectrophotometers, FIDs, and PIDs are studied. 3 lec, 3 lab.

190 Internship/Practicum/Cooperative Education (1, max 20)

Required for students on approved work assignments. Must submit final report on work activities. Credit is not applicable toward specific degree requirements but will accumulate in academic credit total.

198A-Z Special Topics (1-5, max 20)

Provides an opportunity to complete individual projects that involve special topics concerning environmental engineering technology problems.

200 Site Investigation, Sampling, and Monitoring (3)

Prereq: 110. Field-oriented course involving hazardous materials site investigation, characterization, and cleanup. Topics are planning and organization, training and medical programs, site assessment, sampling and monitoring, site control, hazardous materials handling, and emergency response.

200L Site Investigation, Sampling, and Monitoring Laboratory (1)

Prereq: 110. Field-oriented course involving hazardous materials site investigation, characterization, and cleanup. Topics are planning and organization, training and medical programs, site assessment, sampling and monitoring, site control, hazardous materials handling, and emergency response. 3 lab.

210 Introduction to Health Physics (3)

Addresses fundamental principles of health physics and radiation protection. Topics include atomic structure, types of radiation, radioactive decay, methods of radiation detection, dosimetry, biological effects, and radiation protection.

210L Health Physics Laboratory (1)

Emphasizes use of health physics instrumentation including rate meters, scintillation cells, radon detection, and gamma spectrometry as they apply to personal and environmental monitoring. 3 lab.

220 Fluid Mechanics (3)

Prereq: 110. Fundamentals of fluid mechanics as applied to surface and groundwater, wastewater, and air emissions management. Topics include basic hydraulics, friction loss, pressure, flow measurement, pump types and characteristics, and schematic interpretation.

240 Air Sampling and Analysis (3)

Prereq: 110, 140. Provides practical field experience in ambient air and indoor sampling. Instrumentation is used to provide real-time data collection and analysis. Emphasis on methods that determine the concentration of normally encountered air pollutants.

240L Air Sampling and Analysis Laboratory (1)

Prereq: 110, 140. Emphasizes air flow measurements using devices that demonstrate volumetric displacement, velocity impaction, viscosity, and pressure. Provides techniques for determining accuracy, precision or repeatability, and calibration. 3 lab.

245 Wastewater Treatment (3)

Prereq: 110, 120. Introduction to wastewater treatment technologies. Covers regulations and phases of treatment for wastewater treatment systems, liquid/solid waste streams, and basic system process control.

250 Analysis of Environmental Pollutants (3)

Prereq: CHEM 121 and 122, or 151 and 152. Covers important techniques necessary for analyzing environmental samples. Methods established by EPA are used to analyze samples for heavy metals, volatiles, and semi-volatiles.

250L Analysis of Environmental Pollutants Laboratory (1)

Prereq: CHEM 121 and 122, or 151 and 152. Emphasizes lab instrumentation such as GC/MS, AA, and IR spectrophotometer. Lab reports required from the analysis of soil and water samples. 3 lab.

260 Environmental Risk Assessment (3)

Analyzes risk assessment process applied to environmental problems. Uncertainty factors, risk analysis, and exposure characterization, fate, and transport models will be addressed.

290 Internship/Practicum/Cooperative Education (1, max 20)

Required for students on approved work assignments. Must submit final report on work activities. Credit is not applicable toward specific degree requirements but will accumulate in academic credit total.

298A-Z Special Topics (1-5, max 20)

Provides an opportunity to complete individual projects that involve special topics concerning environmental engineering technology problems.

Equine Studies (EQU)

The following courses for the A.A.S. in equine studies are available only on the Southern campus.

101 Introduction to Equine Studies (4)

Overview of the history of the horse, evaluation, selection, breeds, equipment, nutritional requirements, safe handling of horses, shoeing, equine reproduction, and career and leadership opportunities in the horse industry.

110 Equine Nutrition (4)

Study of the equine digestive system, nutrient requirements of horses at various levels of performance, and problems associated with feeds and feeding practices.

120 Equine Anatomy and Physiology (4)

Prereq: BIOL 101. Study of the structure and functions of the horse through the various anatomical systems.

125 Equine First Aid and Preventive Medicine (5)

First aid and emergency treatments, preventive medicine, diseases, and parasitism in horses.

130 Equine Evaluation and Selection (3)

Prereq: 101. Study of the types, evaluation, and selection of purebred horses.

200 Equine Reproduction (4)

Prereq: 101. Comprehensive study of equine reproduction stressing the anatomy and physiology of the stallion and mare and methods of breeding, including artificial insemination, and foaling.

215 Equine Business Management (4)

Prereq: CS 120. Study and practice of basic concepts, techniques, procedures of accounting involved in keeping and analyzing equine records from the management viewpoint. Designed to integrate general business concepts with common practices in the horse industry. Topics include general business laws, equine law, public relations, insurance, bookkeeping, contracts, taxes, and starting and maintaining a horse operation.

220 Farm and Stable Management (4)

Study of the management of a working horse farm. Topics include scheduling, budgeting, equipment use and maintenance, land management, facilities management, site selection and design, and safety.

225 Equestrian Teaching Techniques (3)

Study of the methods of teaching riding. Emphasis on the abilities and skills a good instructor must possess to teach riding as well as the safety, care, and evaluation of school horses. Students will develop and implement teaching plans for riders at the beginning level.

230 Comprehensive and Competitive Horse Judging (3)

Prereq: 130. Continuation of 130. Activity through which students can put assimilated knowledge to practical application and assess knowledge competing on the OU Horse Judging Team. Travel required. Written and oral defense also required.

235 Horse Show and Event Management (3)

Designed to provide students with the necessary tools to organize any show, event, or clinic related to the equine industry. Major topics include planning, fund raising, financing, insurance, record keeping, and advertising. Utilization of principles to plan and operate a horse show and/or clinic for OU-Southern or associated organization.

240 Basic Horse Shoeing (3)

Shoeing and balancing of pleasure and performance horses, corrective trimming, hoof health, anatomy of the leg and foot, and blacksmithing as a business.

250 Harnessing and Driving (1)

Knowledge and fundamental skills used in line driving, lunging, harnessing, and pleasure driving.

280 Fundamentals of Starting the Young Horse (2)

Prereq: PED 168, 172, 173, 176, 177, or 180. Development of advanced riding skills including handling, gentling, saddling, and riding a green-broke horse applying basic horsemanship skills.

282 Therapeutic Riding (3)

Study of the fundamental knowledge and skills related to the therapeutic riding concept. Topics include evaluating and training a horse for therapeutic riding activities, basic state and federal laws addressing people with disabilities, and behavioral concerns with identification of alternative approaches. A supervised experience in therapeutic riding techniques is part of the course.

290 Equine Field Experience (1-6)

Field experience which might include trips to horse farms, race tracks, veterinary clinics, museums, horse shows or events, or seminars offered through recognized organizations or individuals.

295 Equine Internship (1-6)

Practical experience in a specific area of equine studies pertinent to the individual's interests. Examples include working with breeders, trainers, farm and stable managers, riding instructors, breed associations or organizations, veterinarians, and related equine agencies.

Film (FILM)**201 Introduction to Film I (4) (2H)**

Prereq: soph. (fall) Studies in the history of world cinema, from 1895 to the present. Weekly screenings of silent and sound, American and international films.

202 Introduction to Film II (4) (2H)

Prereq: soph. (winter) Introduction to film analysis, with emphasis on formal aspects of film art such as sound, lighting, mise-en-scene, etc. Weekly screenings.

203 Introduction to Film III (4) (2H)

Prereq: soph. (spring) Special topics in film styles, genres, movements, and forms. Weekly screenings.

338 Studies in the Documentary Film (3)

Prereq: 203. (winter) Special topics in the history, theory, and criticism of documentary film and video. Weekly screenings.

340 Film Techniques (4)

Prereq: 201. Introduction to motion picture production techniques. Students will design, shoot, and edit their own projects.

341 Advanced Super-8 Production (4)

Prereq: 340. Advanced workshop in super-8 production for students working on independent film projects.

343 Scriptwriting (4)

Prereq: 201 or 202. Introduction to craft of developing narrative screenplay. Workshop/tutorial approach to study of screenplay structure, format, dialogue, and theory culminating in a 20- to 30-minute completed script.

344J The Practice of Film Criticism (4) (1J)

Prereq: 201 or 202. Survey of film criticism examining styles and techniques of established film critics. Students assigned series of exercises in critical writing. Meets junior-level English requirement.

421 International Film I (4)

Prereq: 201. Analysis of the relationship between film and culture, with emphasis on how cultural meanings influence film aesthetics and the critical assessment of the medium. Films of several filmmaking nations such as Brazil, China, India, Sweden, and the United States will be screened for study.

422 International Film II (4)

Prereq: 201. The development of a nation's or cultural region's films is traced, with emphasis on contemporary works. Cultures under study will vary quarterly and may include the films of Brazil, China, Germany, Eastern Europe, Italy, Southeast Asia, etc.

423 International Film III (4)

Prereq: 201. The aesthetics and uses of film and related technologies in the study of both Western and non-Western peoples is studied, with emphasis on the ethnographic and documentary film. Assignments include field exercises with image-making equipment.

431 Film History I (4)

Prereq: 201 or 202. (fall) Advanced study of the history and historiography of the motion picture. Emphasis on alternatives to the film canon and revisionist approaches to film history. Weekly screenings.

432 Film History II (4)

Prereq: 201 or 202. (winter) Studies in the history of international silent and sound documentary film. Weekly screenings.

433 Film History III (4)

Prereq: 201 or 202. Studies in the history of international silent and sound experimental film. Weekly screenings.

451 Film Theory and Criticism I (4)

Prereq: 203. (fall) Introductory survey of classical and contemporary approaches to film theory and criticism. Weekly screenings.

452 Film Theory and Criticism II (4)

Prereq: 451. (winter) Advanced study of classical and contemporary approaches to film theory and criticism. Weekly screenings.

453 Film Theory and Criticism III (4)

Prereq: 452. (spring) Special topics in film theory and criticism, including auteurism, structuralism, formalism, and feminism. Weekly screenings.

461 Motion Picture Production I (5)

Prereq: 340 and perm. (fall) Professional 16mm film production. Instruction in basic camera and lighting technique, elementary film structure, and bench editing leading to production of individual silent film projects.

462 Motion Picture Production II (5)

Prereq: 361 and perm. (winter) Continuation of 361 introducing sound motion picture shooting and editing techniques, A and B roll preparation.

463 Motion Picture Production III (5)

Prereq: 362 and perm. (spring) Continuation of 362. Advanced sound motion picture production techniques.

471 Film Topics Seminar (1-5)

Prereq: perm. (fall) Investigation of selected motion picture topic announced in advance of registration. Focus may be scholarly/critical, industry related, or aspect of motion picture production or screenwriting. Topics and credit hours vary.

472 Film Topics Seminar (1-5)

Prereq: perm. (winter) See 471 for description.

473 Film Topics Seminar (1-5)

Prereq: perm. (spring) See 471 for description.

490 Individual Production Problems (1-5)

Prereq: perm. Individual production of motion picture. May be repeated.

491 Individual Readings (1-5)

Prereq: perm. Readings and reports on works related to motion pictures. Reading list is selected by student in consultation with faculty member. May be repeated.

492 Independent Study (1-5, max 10)

Prereq: perm. Advanced individual creative or scholarly work in film.

Finance (FIN)

102 Personal Money Management (4)

Prereq: fr/soph only. How to live better financially. Relation of personal goals to money management in terms of expenditures, savings, and tax considerations. Financial media that serve the individual such as life insurance, savings, securities, and consumer and mortgage credit.

298 Internship (1)

Prereq: perm. Internship experience that provides on-site exposure to general business operations and procedures. Intended for experiences following the freshman year.

301 Introduction to Finance (4)

Prereq: not open to fr or soph or those who have taken 102 or to B.B.A. students. Problems in managing personal finances. Budgeting expenditures and savings. Planning life insurance program, investment in savings accounts, securities, and other financial assets. Use of consumer and mortgage credit. Personal taxes.

325 Foundations of Finance (4)

Prereq: ACCT 102; QBA 201 or PSY 120, 121, or 221 or ECON 381 or INCO 301 or GEOG 271; jr. Role of financial management in business enterprise; financial analysis; planning needs for short-term and long-term funds; planning for profits; capital budgeting; internal management of working capital and income; raising funds to finance growth of business enterprises.

327 Financial Markets and Institutions (4)

Prereq: FIN 325, jr and perm. Flow of funds and interest-price movements in money and capital markets. Supply of loanable funds and demand for funds in mortgage loan market, consumer credit market, corporate securities markets, and markets for government securities and municipal obligations. Consideration of effects on financial markets of Federal Reserve and Treasury policies.

331 Risk and Insurance (4)

Prereq: jr or sr and perm. Social importance of risk and its place in personal, business, and national life, including principles and methods of handling risk. Special interest in technique of insurance.

341 Investments (4)

Prereq: 325. Principles in determination of investment media for individual and institutional portfolios. Sources of investment information, analysis of financial statements, investment risks and yields. Securities markets and their behavior.

398 Internship (1-4)

Prereq: perm. Internship experience that provides opportunities to learn by participation in day-to-day activities of a business concern for at least four consecutive weeks. Intended for experience following the sophomore year.

410 Personal Financial Planning (4)

Prereq: 325. Introduction to financial planning for individuals. This course will survey the topics of money management, insurance planning, investment planning, retirement planning, and estate planning.

420 Financial Banking Law (4)

Prereq: jr. This course is designed for students seeking to understand the law and policy of banking and financial institutions (bank, thrift, and credit union). The course emphasizes economic, historical, and legal background of financial institutions; the financial institution regulatory process; and consumer laws.

428 Management of Financial Institutions (4)

Prereq: 327 or perm. Analysis of objectives, functions, practices, and problems of financial institutions as viewed by management of these institutions.

436 Life Insurance (4)

Prereq: 331, perm. Fundamental economics of life insurance. Principles and practices of life insurance including types of contracts, group and industrial insurance, and annuities.

437 Personal and Business Financial Planning (4)

Prereq: jr, 331. Basics of IRS as it applies to personal and corporate taxes, as well as completion of form 1040. Information required on advising clients, as well as personal, concerning estate planning, taxes, trusts, gifts, etc., and how to gather information.

440 Group Insurance and Employee Benefits (4)

Prereq: FIN 331. The study of group life insurance, health insurance and pensions; application to "real life" employee benefits; and exposure to guest speakers from the insurance and securities industry.

441 Business Insurance and Estate Cases (4)

Prereq: two from among 436, 437, 439, and 440. A summary course for students in the risk and insurance field. New cases assigned each week requiring presentations in class and written recommendations on selected case studies presented by small student groups. Lectures by practicing professionals from related disciplines (law, accounting, trusts, employee benefits) are scheduled to demonstrate the broad nature of estate planning practice.

444 Risk Management (4)

Prereq: 327 or perm. Description of derivatives markets, trading, and institutions. Text is supplemented by current readings and derivatives trading simulations.

445 Portfolio Management (4)

Prereq: 341, perm. Decision-making processes in management of individual and institutional securities portfolios. Theoretical foundations of portfolio selection and construction. Mode-building and other criteria applicable to selection, risk-return tradeoffs, revision and evaluation of portfolio performance. Applications of computer technology and other quantitative techniques to different aspects of portfolio management.

450 Credit and Lending Principles of Financial Institutions (4)

Prereq: 325. Provides examination of basic functions involved in supplying credit to borrowers by financial institutions. Organizational framework and division aspects of process studied. Significant policy issues and implications covered.

452 Small Business Finance (4)

Prereq: 325. Application of basic financial management techniques to small business environment (100 or fewer employees). Problems faced by persons who start small business and recommendations for alternative solutions to most commonly discovered problems. Micro view, nuts-and-bolts approach used throughout course, but consistent with broad macro overview set of company objectives.

453 Real Estate Finance (4)

Prereq: 325, perm. Financial and investment analysis in purchase and sale of real properties, including single-family dwellings and income properties. Income and risk analysis in real estate investment. Instruments of real estate finance and institutional arrangements in mortgage markets. Government and mortgage markets. Flow of funds and credit conditions in mortgage markets.

455 International Finance (4)

Prereq: 325. Problems in international finance. Financing international trade and other transactions; foreign exchange market, exchange market, and exchange rates; international payments system. Foreign central banking and current developments in international financing cooperation.

461 Financial Management and Policy (4)

Prereq: 341, perm. Case study of financial management in business enterprises. Planning current and long-run financial needs, profit planning, allocation of funds, raising funds, dividend policies, expansion and combination, recapitalization and reorganization.

463 Capital Allocation (4)

Prereq: 325, perm. Planning capital outlays. Methods for ranking investment proposals. Theories of financial structure and cost of capital. Approaches to investment decisions under conditions of uncertainty.

465 Mathematical Analysis of Financial Decisions (4)

Prereq: 325, perm. Application of quantitative methods to financial management, with special emphasis on systems approach to evaluating proposed financial decisions.

491 Seminar (3, 4, or 5)

Prereq: perm. Selected topics of current interest in finance area.

497 Independent Research (1-4)

Prereq: perm. Research in selected fields of finance under direction of faculty member.

498 Internship (1-4)

Prereq: perm.

Foreign Languages and Literatures

Chinese (Asian) (CHIN)**111 Elementary Chinese (4)**

(fall) Beginning course of 3-qr 1st-yr sequence.

112 Elementary Chinese (4)

Prereq: 111 or equiv. (winter) Continuation of 111.

113 Elementary Chinese (4)

Prereq: 112 or equiv. (spring) Continuation of 112.

169A Spoken Business Chinese (4)

A task-oriented introduction to the basic communicative functions and business terminologies of the Chinese language. Chinese culture and alphabetic Chinese writing will also be introduced; the Chinese character writing system will not be used. Does not satisfy the foreign language requirement.

211 Intermediate Chinese (4) (2C)

Prereq: 113 or equiv. (fall) 1st course of 3-qr intermediate-level sequence.

212 Intermediate Chinese (4) (2C)

Prereq: 211 or equiv. (winter) Continuation of 211.

213 Intermediate Chinese (4) (2C)

Prereq: 212 or equiv. (spring) Continuation of 212.

311 Advanced Chinese (4)

Prereq: 213 or equiv. (fall) Beginning of advanced-level sequence.

312 Advanced Chinese (4)

Prereq: 311 or equiv. (winter) Continuation of 311.

313 Advanced Chinese (4)

Prereq: 312 or equiv. (spring) Continuation of 312.

399 Special Studies in Chinese (1-3)

Prereq: perm. Reading and discussion of arranged assignments in books, periodicals, and tapes on specific topics related to Chinese language and culture.

French (FR)**111 Elementary French (4)**

Beginning course of 3-qr, 1st-yr sequence. Basic grammatical concepts and patterns. Emphasis on development of reading, listening comprehension, speaking, and writing skills. Basic text and workbook used. Lab required.

112 Elementary French (4)

Prereq: 111. Continuation of 111. Basic text, workbook, and readings used. Lab required.

113 Elementary French (4)

Prereq: 112. Continuation of 112. Basic text, workbook, and readings used. Lab required.

211 Intermediate French (4) (2H)

Prereq: 113 or 2 or 3 yrs h.s. French. 1st course of 3-qr intermediate-level sequence. Intensive review of grammar. Additional readings with discussion in French. Supplemental cultural material.

212 Intermediate French (4) (2H)

Prereq: 211 or perm. Continuation of 211.

213 Intermediate French (4) (2H)

Prereq: 212 or 4 yrs h.s. French. Reading and discussion of selected modern works. Completion of 213 fulfills foreign language requirement of College of Arts and Sciences.

298 Independent Study in French (1-2, max 6)

Prereq: 213 or perm. Reading and discussion of assigned materials (books, periodicals, films, tapes) on specific topics involving French language. Does not count toward major or minor. Does not satisfy language requirement.

341 Advanced Conversation and Composition (4)

Prereq: 213 or perm. Speaking and writing based on readings and assigned topics. Grammar review.

342 Advanced Conversation and Composition (4)

Prereq: 341 or perm. Continuation of 341.

343 Advanced Conversation and Composition (4)

Prereq: 342 or perm. Continuation of 342.

345 French for Business (4)

Prereq: 343. Profession-oriented language and culture training in French. Reading, writing, listening, and speaking skills are emphasized in a business context.

348 French Civilization and Culture (4)

Prereq: 341 or 342 or 343. Social, political, and cultural history of France from Middle Ages to Revolution. Readings, discussions, class reports, and short papers.

349 French Civilization and Culture (4)

Prereq: 341 or 342 or 343. (spring) Continuation of 348, covering 1799 to present. France in the modern world.

354 Introduction to Reading French Literature (4)

Prereq: 341 or 342 or 343. Designed to prepare students to meet the challenges of advanced literature courses. Close reading techniques will enable students to read modern French works with speed and comprehension. Basic aspects of literary analysis and theory will be emphasized.

355 Introduction to Prose (4)

Prereq: 354. Reading and discussion of French novels, short stories, and other narrative genres representing various literary traditions.

356 Introduction to Drama and Poetry (4)

Prereq: 354. Reading and discussion of French drama, as literary text and theatrical performance, and lyric poetry from several historical periods.

415 French Literature of the Renaissance (4)

Prereq: 354; 355 or 356. Major 16th-century poets, including Du Bellay and Ronsard.

416 French Literature of the Renaissance (4)

Prereq: 354; 355 or 356. Major 16th-century prose writers, including Rabelais and Montaigne.

418 17th-Century French Literature (4)

Prereq: 354; 355 or 356. Works by numerous authors, including at least some of following: Descartes, Pascal, La Fayette, La Rochefoucauld, La Bruyère, La Fontaine, and Boileau.

419 17th-Century French Literature (4)

Prereq: 354; 355 or 356. Major plays of Corneille, Racine, and Molière.

423 18th Century (4)

Prereq: 354; 355 or 356. French literature and thought in Age of Enlightenment.

424 18th Century (4)

Prereq: 354; 355 or 356. Continuation of 423.

425 Romanticism (4)

Prereq: 354; 355 or 356. Romanticism in drama, poetry, and fiction of first half of 19th century.

426 Realism and Naturalism (4)

Prereq: 354; 355 or 356. Major fictional works of 19th century.

427 French Poetry in the Second Half of the 19th Century (4)

Prereq: 354; 355 or 356. Poetry of Baudelaire, Verlaine, Rimbaud, Mallarmé, and others.

429 20th-Century French Literature I (4)

Prereq: 354; 355 or 356. French prose fiction before WWII.

431 20th-Century French Literature II (4)

Prereq: 354; 355 or 356. French prose fiction since WWII.

433 20th-Century French Literature III (4)

Prereq: 354; 355 or 356. French drama of the 20th century.

434 French Through Film (4)

Prereq: 342. Early development of the French cinema and its more recent filmmakers, actors, and actresses. Films are studied in their cultural and historical contexts. Students increase their French proficiency through listening, speaking, reading, and writing.

435 Proseminar (1-4, max 12)

Prereq: 354; 355 or 356. Subject will vary. May be repeated when subject changes.

437 Applied Phonetics (4)

Prereq: 343 or perm. (fall) Systematic study of segmental and prosodic elements of French pronunciation including extensive oral practice.

439 Modern French Usage (4)

Prereq: 343 or perm. (winter) Fine points of grammar. Practice in composition and analysis of texts.

441 Stylistics (4)

Prereq: 343 or perm. (spring) Composition. Explication de texte. Translation of English into French. Study of French prosody.

498 Independent Study in French (1-2, max 4)

Prereq: 8 credits at 300 level or perm of dept chair. Directed individual readings, discussion, and reports in language at advanced level. Does not count toward 400-level hrs required for major. Maximum of two credits may count toward minor.

German (Germanic) (GER)**111 Elementary German (4)**

Introduction to pronunciation and basic grammar. Development of comprehension and speaking skills. Lab required. Beginning course of 3-qr 1st-yr sequence.

112 Elementary German (4)
Prereq: 111. Continuation of 111. Lab required.

113 Elementary German (4)
Prereq: 112. Continuation of 112. Continued development of skills of oral and written production and comprehension. Lab required.

211 Intermediate German (4) (2H)
Prereq: 113 or 2 or 3 yrs h.s. German. Continued development of listening comprehension, reading, writing, and speaking skills. Grammar review. Lab required. 1st course of 3-qr intermediate-level sequence.

212 Intermediate German (4) (2H)
Prereq: 211 or perm. Continuation of 211. Emphasis on discussion of modern texts. Continued development of listening comprehension and speaking and writing skills. Lab required.

213 Intermediate German (4) (2H)
Prereq: 212 or 4 yrs h.s. German. Modern German texts are read and form basis for discussions and written assignments. Completion of 213 fulfills foreign language requirement of College of Arts and Sciences.

235 German Drama on Stage (1-4)
(winter) Presentation of German drama on stage. Private coaching in pronunciation and inflection of German. Credit varies according to role of student. May be repeated for credit with perm.

298 Independent Study in German (1-2, max 6)
Prereq: 213 or perm. Reading and discussion of assigned materials (books, periodicals, films, tapes) on specific topics involving German language. Does not count toward major or minor. Does not satisfy language requirement.

341 Advanced Conversation and Composition (4)
Prereq: 213 or perm.

342 Advanced Conversation and Composition (4)
Prereq: 341 or perm.

343 Advanced Conversation and Composition (4)
Prereq: 342 or perm.

345 Business German (4)
Prereq: 342. Development of the student's linguistic abilities in German in a business context. Readings, videos, and discussions will focus on business terminology and practices in German-speaking countries. Written assignments include preparing a resume and a letter of application in German.

348 German Culture and Civilization (4)
Prereq: 213 or perm. Historical, intellectual, and artistic aspects of German, Austrian, and Swiss culture from earliest times to present.

349 German Culture and Civilization (4)
Prereq: 213 or perm. Continuation of 348.

355 Introduction to German Literature (4)
Prereq: 213. Study of major literary works, with emphasis on 18th and 19th centuries.

356 Introduction to German Literature (4)
Prereq: 213. Study of major literary works of 20th century.

425 19th-Century German Literature (4)
Prereq: 355 and 356.

426 19th-Century German Literature (4)
Prereq: 355 and 356.

427 19th-Century German Literature (4)
Prereq: 355 and 356.

429 20th-Century German Literature (4)
Prereq: 355 and 356.

430 20th-Century German Literature (4)
Prereq: 355 and 356.

431 20th-Century German Literature (4)
Prereq: 355 and 356.

433 German Lyric Poetry (4)
Prereq: 355 and 356. Interpretative and critical study of German lyric poetry.

435 Proseminar (1-4, max 12)
Prereq: perm. Intensive analysis of major author, literary genre, or theme. When subject is changed, student may re-enroll.

439 Grammatical Structure (4)
Prereq: 343 or perm. Selected problems in analysis and classroom presentation of German morphology and syntax.

441 Stylistics (4)
Prereq: 343 or perm. Advanced writing and stylistic analysis. Practice in variety of nonfiction prose techniques.

453 The Age of Goethe (4)
Prereq: 355 and 356. Major works of Lessing, Schiller, and Goethe.

454 The Age of Goethe (4)
Prereq: 355 and 356. Continuation of 453. See 453 for description.

455 The Age of Goethe (4)
Prereq: 355 and 356. Continuation of 453 and 454. See 453 for description.

498 Independent Study in German (1-2, max 4)
Prereq: 8 credits at 300 level or perm of dept chair. Directed individual readings, discussion, and reports in language at advanced level. Does not count toward 400-level hrs required for major. Maximum of two credits may count toward minor.

Greek (GK)

111 Beginning Greek (4)
Grammar, vocabulary, and reading of ancient Greek. Students will be introduced to Ionic, Attic, and Koine (New Testament) dialects.

112 Beginning Greek (4)
Prereq: 111. Continuation of 111. See 111 for description.

113 Beginning Greek (4)
Prereq: 112. Continuation of 111-112. See 111 for description.

211 Greek Prose and Poetry (4) (2H)
Prereq: 113. Review of language principles. Readings adapted to needs and interests.

212 Greek Prose and Poetry (4) (2H)
Prereq: 211. Continuation of 211. See 211 for description.

213 Greek Prose and Poetry (4) (2H)
Prereq: 212. Continuation of 211-212. See 211 for description.

251X Demotic Greek (4)
Beginning demotic (modern) Greek.

252X Demotic Greek (4)
Prereq: 251X. Continuation of demotic (modern) Greek.

253X Demotic Greek (4)
Prereq: 252X. Continuation of demotic (modern) Greek.

311 Greek Epic Poets (4)
Readings in Greek from Homer and Hesiod.

312 Greek Tragedy (4)
Readings in Greek from Aeschylus, Sophocles, and/or Euripides.

313 Readings in Greek Intellectual History (4)
Readings in Greek from Plato, Thucydides, and/or the Sophists.

314 Greek Historians (4)
Readings in Greek from Herodotus and Thucydides.

315 Greek Comedy (4)
Readings in Greek from Aristophanes.

316 The Greek New Testament and the Milieu of Early Christianity (4)
Readings in Greek from the New Testament, the early Greek fathers, and/or non-Christian writers of interest for the study of early Christianity.

409 Advanced Greek Readings (2-4, max 18)
Prereq: 21 hrs. (on demand) Selections adapted to needs and interests.

Indonesian/Malaysian (Asian) (INDO)

111 Elementary Indonesian/Malaysian (4)
(fall) Beginning course of 3-qr 1st-yr sequence.

112 Elementary Indonesian/Malaysian (4)
Prereq: 111 or equiv. (winter) Continuation of 111.

113 Elementary Indonesian/Malaysian (4)
Prereq: 112 or equiv. (spring) Continuation of 112.

211 Intermediate Indonesian/Malaysian (4)(2C)
Prereq: 113 or equiv. (fall) 1st course of 3-qr intermediate-level sequence.

212 Intermediate Indonesian/Malaysian (4) (2C)
Prereq: 211 or equiv. (winter) Continuation of 211.

213 Intermediate Indonesian/Malaysian (4) (2C)
Prereq: 212 or equiv. (spring) Continuation of 212.

311 Advanced Indonesian/Malaysian (4)
Prereq: 213 or equiv. (fall) Beginning of advanced-level sequence.

312 Advanced Indonesian/Malaysian (4)
Prereq: 311 or equiv. (winter) Continuation of 311.

313 Advanced Indonesian/Malaysian (4)
Prereq: 312 or equiv. (spring) Continuation of 312.

399 Special Studies (1-3, max 9)
Prereq: perm. Independent study of topic of interest in Indonesian/Malaysian language or literature.

International Literatures in English (ILL/ILML)

The lectures and readings for these courses are in English and are aimed at the entire university community. While they do not fulfill requirements toward any of the majors in foreign language, these courses will count toward the humanities area requirements of the College of Arts and Sciences. No credit toward the foreign language requirement.

International Literature: Linguistics (ILL)

340 Traditional Literature of Southeast Asia (3)
(fall) Survey of traditional literature of Southeast Asia in English.

345 Modern Literature of Southeast Asia (3)
(winter) Survey of modern literature of Southeast Asia in English.

369A Women in Chinese Literature (4)
Introduction to Chinese language, culture, and society through reading in English translation of fictional representations of women in China.

International Literature: Modern Languages (ILML)

334 Portuguese and Brazilian Literature in English (4)

Literature of Portugal or literature of Brazil in English translation. May be repeated for credit when subject changes.

335 Italian Literature in English (4) (2H)
Famous literary works of best Italian authors, presented in English. May be repeated for credit when subject changes.

336 Spanish Literature in English (4) (2H)
Topics may deal with either Spanish or Latin American literature. May be repeated for credit when topic changes.

337 French Literature in English (4) (2H)
Literary works by authors of French expression, read and discussed in English. May be repeated for credit when subject changes.

338A German Literature in English (4) (2H)
Survey of masterpieces of German literature, presented in English. May be repeated for credit when subject changes.

338B German Novel in English (4) (2H)
Introduction to major German, Swiss, and Austrian novelists in English translation.

339A Russian Literature in English (4)
Survey of Russian literature from beginnings to revolution, presented in English.

339B 20th Century Russian Literature in English (4)
Major Russian writers of the 20th century.

Italian (Romance) (ITAL)

111 Elementary Italian (4)
(fall) Beginning course of 3-qtr 1st-yr sequence.

112 Elementary Italian (4)
Prereq: 111 or equiv. (winter) Continuation of 111.

113 Elementary Italian (4)
Prereq: 112. (spring) Continuation of 112.

211 Intermediate Italian (4) (2H)
Prereq: 113 or 2–3 yrs h.s. Italian. (fall) 1st course of 3-qtr intermediate-level sequence.

212 Intermediate Italian (4) (2H)
Prereq: 211 or perm. (winter) Continuation of 211.

213 Intermediate Italian (4) (2H)
Prereq: 212 or 4 yrs h.s. Italian. (spring) Completion of 213 fulfills foreign language requirement of College of Arts and Sciences.

29B Independent Study in Italian (1–2, max 6)
Prereq: 213 or perm. Reading and discussion of assigned materials (books, periodicals, films, tapes) on specific topics involving Italian language. Does not satisfy language requirement.

341 Advanced Conversation and Composition (4)
Prereq: 213 or perm. (fall)

342 Advanced Conversation and Composition (4)
Prereq: 341 or perm.

343 Advanced Conversation and Composition (4)
Prereq: 342 or perm.

348 Italian Civilization and Culture (4)
Prereq: 213 or perm. (winter) Historical and cultural development of Italy from Middle Ages to Renaissance.

349 Italian Civilization and Culture (4)
Prereq: 213 or perm. (spring) Continuation of 348, covering period from Renaissance to present.

355 Introduction to Italian Literature (4)
Prereq: 213 or perm.

356 Introduction to Italian Literature (4)
Prereq: 213 or perm.

Japanese (Asian) (JAPN)

111 Elementary Japanese (4)
(fall) Beginning course of 3-qtr 1st-yr sequence.

112 Elementary Japanese (4)
Prereq: 111 or equiv. (winter) Continuation of 111.

113 Elementary Japanese (4)
Prereq: 112 or equiv. (spring) Continuation of 112.

211 Intermediate Japanese (4) (2C)
Prereq: 113 or equiv. (fall) 1st course of 3-qtr intermediate-level sequence.

212 Intermediate Japanese (4) (2C)
Prereq: 211 or equiv. (winter) Continuation of 211.

213 Intermediate Japanese (4) (2C)
Prereq: 212 or equiv. (spring) Continuation of 212.

250 Japanese Language and Culture (4) (2C)
(spring) Introduction to cultural traditions of Japan and its language. English translations are used.

269D Japanese Language and Culture I (4)
Prereq: 113. Study of Japanese culture through readings on contemporary Japan and interviews with Japanese people. Students will be in Japan as part of the Study Abroad program.

269E Japanese Language and Culture II (4)
Prereq: 113. Study of Japanese culture through readings on contemporary Japan and interviews with Japanese people. Students will be in Japan as part of the Study Abroad program.

269F Japanese Language and Culture III (4)
Prereq: 113. Study of Japanese culture through readings on contemporary Japan and interviews with Japanese people. Students will be in Japan as part of the Study Abroad program.

311 Advanced Japanese (4)
Prereq: 213 or equiv. (fall) Beginning of advanced-level sequence.

312 Advanced Japanese (4)
Prereq: 311 or equiv. (winter) Continuation of 311.

313 Advanced Japanese (4)
Prereq: 312 or equiv. (spring) Continuation of 312.

34B Readings in Japanese Culture I (4)
Prereq: 213x or 311 or perm. Social, political, and cultural aspects of modern Japan, through readings, discussions, class reports, and short papers. All work will be done in Japanese.

349 Readings in Japanese Culture II (4)
Prereq: 348. Social, political, and cultural aspects of modern Japan, through readings, discussions, class reports, and short papers. All work will be done in Japanese.

399 Special Studies in Japanese (1–3)
Prereq: perm. Reading and discussion of arranged assignments in books, periodicals, and tapes on specific topics related to Japanese language and culture.

411 Fourth-Year Japanese (4)
Prereq: 313 or equiv. (fall) Beginning of fourth-year sequence.

412 Fourth-Year Japanese (4)
Prereq: 411 or equiv. Continuation of 411.

413 Fourth-Year Japanese (4)
Prereq: 412 or equiv. Continuation of 412.

Latin (LAT)

111 Beginning Latin (4)
Grammar, vocabulary, and reading.

112 Beginning Latin (4)
Prereq: 111. Continuation of 111. See 111 for description.

113 Beginning Latin (4)
Prereq: 112. Continuation of 111–112. See 111 for description.

211 Intermediate Latin (4) (2H)
Prereq: 113 or 2–3 yrs h.s. Latin. Review of language principles. Reading of prose and poetry.

212 Intermediate Latin (4) (2H)
Prereq: 211. Continuation of 211. See 211 for description.

213 Intermediate Latin (4) (2H)
Prereq: 212. Continuation of 211–212. See 211–212 for description.

351 Latin Prose and Poetry (4)
Prereq: 213 or 4 yrs h.s. Latin, or 2 yrs h.s. Latin and perm. Review of essential Latin. Reading of Cicero's essays, play of Plautus or Terence, Horace's Odes and Epodes.

352 Latin Prose and Poetry (4)
Prereq: 213 or 4 yrs h.s. Latin, or 2 yrs h.s. Latin and perm. Continuation of 351. See 351 for description.

353 Latin Prose and Poetry (4)
Prereq: 213 or 4 yrs h.s. Latin, or 2 yrs h.s. Latin and perm. Continuation of 351–352. See 351 for description.

364 The Teaching of High School Latin (4)
Prereq: 213. (on demand) Content and methods of teaching h.s. Latin courses.

411 Latin Literature of the Republic (4)
Prereq: 353. Selections from works of Plautus, Terence, Caesar, Cicero, Lucretius, Catullus, and Sallust.

412 Latin Literature of the Republic (4)
Prereq: 353. Continuation of 411. See 411 for description.

413 Latin Literature of the Republic (4)
Prereq: 353. Continuation of 411–412. See 411 for description.

415 Latin Literature of the Early Empire (4)
Prereq: 353. Selections from works of Vergil, Horace, Livy, Ovid, Martial, Tacitus, Juvenal, and Pliny the Younger.

416 Latin Literature of the Early Empire (4)
Prereq: 353. Continuation of 415. See 415 for description.

417 Latin Literature of the Early Empire (4)
Prereq: 353. Continuation of 415–416. See 415 for description.

419 Readings in Latin Literature (4)
Prereq: 353. Selections complement students' other readings in Latin literature.

420 Readings in Latin Literature (4)
Prereq: 353. Continuation of 419. See 419 for description.

421 Readings in Latin Literature (4)
Prereq: 353. Continuation of 419–420. See 419 for description.

433 Advanced Latin Syntax (4)
Prereq: 353. Writing of Latin prose.

440 Special Work in Latin (1–6, max 12)
Prereq: 353. (on demand) Specialized work in selected phases of classical study.

Modern Languages (Introductory Culture and Civilization; Professional Courses) (ML)

Note: 250A–D, 410, and 445 do not count toward the major. With departmental approval 250A–C may be applied to the Arts and Sciences humanities requirement.

250A Field Studies in Austria (1–4, max 4)
Prereq: perm. Designed to introduce participants in study abroad program to various aspects of life in target country.

250B Field Studies in France (1–4, max 4)
Prereq: perm. See 250A for description.

250C Field Studies in Mexico (1–4, max 4)
Prereq: perm. See 250A for description.

250D Field Studies in Spain (1–4, max 4)
Prereq: perm. See 250A for description.

321J Writing in Two Languages (4) (1J)
Prereq: jr, fr comp, FR 213 or equiv. Course designed for the English-speaking student with two or more years of French (or course-specific language) who would like to improve his or her English writing skills using a comparative language approach.

370J Translation as Writing (4) (1J)
Prereq: fr comp, jr, 213 FL or Non-nat. An introduction to the practice and theory of translation into English with special emphasis on translation as a form of writing/composition. Analysis and discussion of good writing and of the students' own translations and compositions.

410 The Language Laboratory: Media in Foreign Language Teaching (4)
Prereq: foreign language courses numbered 213 or courses in linguistics. Use of language lab and associated media as correlated with modern language classroom; instruction in selection, preparation, and use of instructional materials and tests, and in successful operation of lab and classroom equipment. Required of majors who plan to teach.

435 Teaching Foreign Languages in the Elementary School (4)
Prereq: perm. Readings and discussions of the cognitive development of children and second language acquisition provide the basis for practical class work. Students design units and prepare learning activities to present in class. Lab experience includes 20 hours observation and participation on the elementary school level. Course substitutes for EDEL 310 and 310L.

445 Teaching of Modern Foreign Languages (4)
Prereq: perm. Not to be counted as hours above 200 for A.B. degree. Study, demonstration, and use of methods and materials for effective modern foreign language instruction. Required of majors who plan to teach.

Russian (Slavic) (RUS)

111 Elementary Russian (4)
(fall) Beginning course of 3-qtr 1st-yr sequence.

112 Elementary Russian (4)
Prereq: 111. (winter) Continuation of 111.

113 Elementary Russian (4)
Prereq: 112. (spring) Continuation of 112.

211 Intermediate Russian (4) (2H)
Prereq: 113 or 2–3 yrs h.s. Russian. (fall) Continued language study. Review of grammar. 1st course of 3-qtr intermediate-level sequence.

212 Intermediate Russian (4) (2H)
Prereq: 211 or perm. (winter) Continuation of 211. Extensive reading, writing, and oral practice.

213 Intermediate Russian (4) (2H)
Prereq: 212 or 4 yrs h.s. Russian. (spring) Accelerated reading, writing, and oral practice. Completion of 213 fulfills foreign language requirement of College of Arts and Sciences.

298 Independent Study in Russian (1–2, max 6)
Prereq: 213 or perm. Reading and discussion of assigned materials (books, periodicals, films, tapes) on specific topics involving Russian language. Does not count toward minor. Does not satisfy language requirement.

341 Advanced Conversation and Composition (4)
Prereq: 213 or perm. (fall)

342 Advanced Conversation and Composition (4)
Prereq: 341 or perm. (winter)

343 Advanced Conversation and Composition (4)
Prereq: 342 or perm. (spring)

348 The Cultural History of Russia (4)
Prereq: 213 or perm. Cultural development of Russia from the 10th to the 17th centuries. Readings and lectures in Russian.

349 The Cultural History of Russia (4)
Prereq: 213 or perm. Continuation of 348. Cultural movements in Russia from the 18th century to the present day. Readings and lectures in Russian.

355 Introduction to Russian Literature (4)
Prereq: 213 or perm. Introduction to literary terms. 19th-century literary movements and authors. Reading and lectures in Russian.

356 Introduction to Russian Literature (4)
Prereq: 213 or perm. 20th-century developments in Russian literature. Reading and lectures in Russian.

397 Introduction to the History of the Russian Language (3)
Prereq: 213 or 4 yrs h.s. Russian. (spring) Russian phonology, morphology, and syntax from Common Slavic to present. East, West, and South Slavic languages.

412 19th-Century Russian Literature (4)
Prereq: 355, 356.

429 Russian Literature of the Soviet Era (4)
Prereq: 355, 356.

435 Proseminar (1–4, max 12)
Prereq: perm. Intensive analysis of major author, literary genre, or theme. May be repeated when subject is changed.

441 Stylistics (4)
Prereq: 343 or perm. Advanced writing and stylistic analysis. Practice in variety of nonfiction prose techniques.

498 Independent Study in Russian (1–2, max 4)
Prereq: 8 cr at the 300 level or perm. Directed individual readings, discussion, and reports at the advanced level. Does not count toward minor.

Spanish (Romance) (SPAN)

111 Elementary Spanish (4)
Development of comprehension, speaking, and reading skills. Basic grammar. Lab required. Beginning course of 3-qtr 1st-yr sequence.

112 Elementary Spanish (4)
Prereq: 111. Continuation of 111.

113 Elementary Spanish (4)
Prereq: 112. Continuation of 112.

211 Intermediate Spanish (4) (2C)
Prereq: 113 or 2–3 yrs h.s. Spanish. Intensive review of grammar. Additional readings, writing, and discussion in Spanish. Supplemental cultural material. Lab requirements may vary. 1st course of 3-qtr intermediate-level sequence.

212 Intermediate Spanish (4) (2C)
Prereq: 211 or perm. Continued review. Additional literary readings with discussion and writing in Spanish.

213 Intermediate Spanish (4) (2C)
Prereq: 212 or 4 yrs h.s. Spanish. Continued review, literary readings, discussion, and writing. Selected 20th century Spanish dramatists and novelists with discussion. Completion of 213 fulfills foreign language requirement of College of Arts and Sciences.

298 Independent Study in Spanish (1–2, max 6)
Prereq: 213 or perm. Reading and discussion of assigned materials (books, periodicals, films, tapes) on specific topics involving Spanish language. Does not count toward major or minor. Does not satisfy language requirement.

341 Advanced Conversation and Composition (4)
Prereq: 213 or perm. Conversation and discussion. Emphasis on writing skills.

342 Advanced Conversation and Composition (4)
Prereq: 341 or perm. Equal emphasis on speaking and writing.

343 Advanced Conversation and Composition (4)
Prereq: 342 or perm. Emphasis on speaking.

345 Business Spanish (4)
Prereq: 343. This course, designed for intermediate and advanced students of Spanish, will enable them to achieve a higher level of competence in oral and written communication in order to help conduct business in the Spanish-speaking world. The course is suitable for business majors interested in working with Hispanic clients; international business majors; and undergraduate liberal arts majors wishing to expand their awareness of the Spanish language or seeking positions with companies doing international business.

348 Spanish Civilization and Culture (4)
Prereq: 341, 342, and 343. (spring) Survey of Spanish civilization and culture.

349 Spanish American Civilization and Culture (4) (2C)
Prereq: 341, 342, and 343. (spring) Survey of Spanish American civilization and culture.

350 Mexican Civilization and Culture (4)
Prereq: 213. Study of Mexican life, language, art, and their regional variation. Offered only in Mexico.

351 Mayan Civilization and Culture (4)
Prereq: 213. Examination of Mayan civilization of yesterday and today, with emphasis on its continuing presence in Yucatan. Offered only in Mexico.

352 Yucatecan Civilization (4)
Prereq: 213, perm of study abroad director. Introduces the student studying abroad with the Ohio University program in the Yucatan to the rich and diverse culture encountered there. Two sections—one theoretical and one applied—will allow the student to begin to understand the sometimes complex issues that form the Yucatecan personality and make it very different from that of other states in Mexico.

354 Introduction to Spanish Literature (4)
Prereq: 341 or 342 or 343. Selected Spanish and Spanish-American plays. Historical developments and movements in Hispanic theater. Terminology. Readings, lectures, and discussion.

355 Introduction to Spanish Literature (4)
Prereq: 341 or 342 or 343. Selected Spanish and Spanish-American novels and shorter fiction. Historical developments and movements in Hispanic narrative form. Terminology. Readings, lectures, and discussion.

356 Introduction to Spanish Literature (4)
Prereq: 341 or 342 or 343. Selected Spanish and Spanish-American poetry. Historical developments and tendencies in Hispanic verse. Movements and terminology. Readings, lectures, and discussion.

361 Understanding Spoken Spanish (4)
Prereq: 213. Designed to increase students' understanding of spoken Spanish through exposure to and practice with recorded oral materials. Students work with distinct language varieties including dialect variants, commercials, songs, jokes, and broadcasts. Strategies for developing listening skills are presented.

398 Internship in Mexico (1-5)
Prereq: Prior 5A in Mexico and perm of director. This ten-week internship is designed to help that student who already has studied abroad and has spent one quarter in Merida with the Ohio University program, and wishes to return to Mexico to improve oral language skills within the context of an internship.

425 19th-Century Spanish Literature (1800–1850) (4)
Prereq: 3 of 345, 354, 355, 356. Romanticism, costum-brismo, and other movements in drama, essay, and poetry.

427 19th-Century Spanish Literature (1850–1900) (4)
Prereq: 3 of 345, 354, 355, 356. Evolution of the novel in 19th-century Spain, including novels selected from the work of the following: Valera, Pereda, Galdos, Alas, Pardo Bazan, Blasco Ibanez.

429 Generation of '98 (4)
Prereq: 3 of 345, 354, 355, 356. Representative works by early 20th-century Spanish writers, including at least some of the following: Azorin, Baroja, Valle-Inclan, A. Machado, Perez de Ayala, Ortega y Gasset, and Juan Ramon Jimenez.

432 20th-Century Spanish Literature (4)
Prereq: 3 of 345, 354, 355, 356. Study of poetry, novel, and drama in Spain since 1925, including works by at least some of the following writers: Lorca, Salinas, Guillen, Aleixandre, Bousono, Valente, A. Gonzalez, Buero, Cela, Delibes, Martin-Santos, J. Goytisolo, Martin Gaité.

435 Proseminar (1–4, max 12)
Prereq: perm. Subject will vary. May be repeated when subject changes.

437 Applied Phonetics (4)
Prereq: 343 or perm. (fall) Systematic description of the sound system of Spanish.

439 Modern Spanish Usage (4)
Prereq: 343 or perm. The grammatical structure of modern Spanish.

440 Teaching Spanish: Theory and Methodology (4)
Prereq: 343. This course provides an introduction to the philosophy and theoretical orientation of the teaching of Spanish language and cultures; an introduction to issues in second-language-acquisition research, with a focus on Spanish; and opportunities to develop professional and instructional materials.

441 Stylistics (4)
Prereq: 3 of 345, 354, 355, 356. Analysis of literary styles and study of techniques used to acquire correct style in writing Spanish.

443 Survey of Spanish American Literature (4)
Prereq: 3 of 345, 354, 355, 356. Main movements of Spanish American literature from colonial period to Modernismo.

444 Survey of Spanish American Literature (4)
Prereq: 3 of 345, 354, 355, 356. Continuation of 443. Main movements of Spanish American literature from Modernismo to contemporary period

447 Themes from Spanish American Prose (4)
Prereq: 3 of 345, 354, 355, 356.

448 Contemporary Spanish American Literature (4)
Prereq: 3 of 345, 354, 355, 356.

453 Drama of the Golden Age (4)
Prereq: 3 of 345, 354, 355, 356. Works by Lope de Vega, Calderon de la Barca, Tirso de Molina, Juan Ruiz de Alarcon, and related dramatists.

454 Golden Age Poetry (4)
Prereq: 3 of 345, 354, 355, 356. Works by Garcilaso de la Vega, San Juan de la Cruz, Luis de León, Lope de Vega, Luis de Góngora, Francisco de Quevedo, and related poets.

455 Novel of the Golden Age (4)
Prereq: 3 of 345, 354, 355, 356. Picaresque novel, Cervantes' *Novelas Ejemplares*, and other examples of the novel from this period.

458 Don Quijote de la Mancha (4)
Prereq: 3 of 345, 354, 355, 356. Intensive study of Part One and Part Two of Spain's greatest novel.

498 Independent Study in Spanish (1–2, max 4)
Prereq: 8 credits at 300 level or perm. Directed individual readings, discussion, and reports in language at advanced level. Does not count toward 400-level hours required for major. Maximum of two credits may count toward minor.

Swahili (African) (SWAH)

111 Elementary Swahili (4)
(fall) Beginning course of 3-qr 1st-yr sequence.

112 Elementary Swahili (4)
Prereq: 111 or equiv. (winter) Continuation of 111.

113 Elementary Swahili (4)
Prereq: 112 or equiv. (spring) Continuation of 112.

211 Intermediate Swahili (4) (2C)
Prereq: 113 or equiv. (fall) 1st course of 3-qr intermediate-level sequence.

212 Intermediate Swahili (4) (2C)
Prereq: 211 or equiv. (winter) Continuation of 211.

213 Intermediate Swahili (4) (2C)
Prereq: 212 or equiv. (spring) Continuation of 212.

311 Advanced Swahili (4)
Prereq: 213 or equiv. (fall) Beginning of advanced-level sequence.

312 Advanced Swahili (4)
Prereq: 311 or equiv. (winter) Continuation of 311.

313 Advanced Swahili (4)
Prereq: 312 or equiv. (spring) Continuation of 312.

399 Special Studies in Swahili (1–3)
Prereq: perm. Reading and discussion of arranged assignments in books, periodicals, and tapes on specific topics related to Swahili language and East African culture.

French

See Foreign Languages and Literatures.

Geography (GEOG)

101 Physical Geography (5) (2N)
Systematic survey of temperature, precipitation, atmospheric and oceanic circulation, and global systems of climate, soils, natural vegetation, and landforms. 4 lec, one 2-hr lab.

121 Human Geography (4) (2S)
Examination of spatial dimensions of culture, emphasizing patterns of selected cultural elements— language, religion, population, settlement, political and economic landscapes, and human/environment interactions.

131 World Regional Geography: Third World (4) (2C)
Survey of selected geographic themes: development; people and resources; human and physical environments; and cultural patterns in Latin America, Africa, the Middle East, and Asia.

132 World Regional Geography: Industrial World (4) (2S)
Survey of selected geographic themes: development; people and resources; human and physical environments; and cultural patterns in Anglo-America, Western and Eastern Europe, the former U.S.S.R., Japan, and Australia.

201 Environmental Geography (4) (2A)
Geographic survey of environmental changes caused by human activities. Focus on resource availability and use, pollution of air, water, and biosphere, energy problems, interactions of humans with plant and animal communities.

220 Economic Geography (4) (2S)
Prereq: one course in GEOG, BUS, or ECON. A systematic survey of world patterns of economic activities, including agriculture, fishing, mining, manufacturing, and services industries, and the association of those patterns with demographic, social, and income characteristics of world regions.

232 Geography of Ohio (4)
Detailed regional study of physical geography of Ohio and its cultural landscapes, settlement patterns, and economic development.

233 Geography of Appalachia (4)
Topical and regional survey of Appalachia with emphasis on settlement and rural and urban land use. Examination of national role of Appalachia in coal production, problems of environmental degradation, conservation, and recreation.

234 Geography of the United States and Canada (4)
Regional survey of North America including topical treatment of physical and cultural elements and intensive study of smaller regions.

241 Global Issues in Environmental Geography (4)
Prereq: 201. An inquiry approach to environmental issues of global scope such as human population growth, energy production and consumption, climatic change, deforestation, species depletion, disposal of wastes. Examination of the sustainability of human and natural systems.

260 Maps (4) (2A)
Introduction to map reading, interpretation, and appreciation. Examination of scale, direction, distortion, projections, and the use of maps to show physical and cultural landscapes and as everyday means of communication. 3 lec, one 2-hr lab.

268 Computer Applications in Geography (4)
Prereq: major or perm. Introduction to techniques applied to geographical problems. Students will learn basic skills using spreadsheet, HTML, and representational software and geographical information systems. 3 lec, 2 lab.

271 Introduction to Statistics in Geography (5)

Prereq: major. Introduction to application of statistics in geography. Includes descriptive statistics, descriptive spatial statistic, normal, poisson and binomial probabilities, hypothesis testing, and inferential statistics through linear regression. The laboratory portion includes statistics applications in a spreadsheet environment. 4 lec, one 2-hr lab.

302 Meteorology (5)

Prereq: 101. General survey of meteorology with focus on physical principles explaining weather change. 4 lec, one 2-hr lab.

303 Climatology (5)

Prereq: 302. Exchanges of energy and moisture and their significance to human utilization of the earth's surface. 4 lec, one 2-hr lab.

304 Observations in Meteorology and Forecasting (2, max 4)

Prereq: 101, 302. Lab experience in acquisition, measurement, and interpretation of meteorological parameters.

305 Practicum in Meteorological Forecasting (2-10)

Prereq: 101, 302, 304. Lab experience in preparation and dissemination of meteorological forecasts.

315 Landforms and Landscapes (5)

Prereq: 101 or GEOL 101. A topical approach to the study of landforms and landforming processes as fundamental elements of the physical environment. Includes landforms created by tectonism, volcanism, gravity, streams, glaciers, waves, and the wind. 4 lec, one 2-hr lab.

316 Biogeography (4)

Prereq: 101 and one course in BIOS/PBIO. An examination of the historical, environmental, and biotic influences that shape spatial patterns of plant and animal distributions and community structure in the contemporary landscape. (Cross-listed with 8IOS.)

320 American Ethnic Geography (4)

Prereq: 121. Systematic and thematic survey of spatial and cultural patterns associated with ethnicity and ethnic groups in the United States. Emphasis on historical and spatial patterns of immigration, the experience of ethnic groups in American plural society, and ethnic contributions to American life.

321 Population Geography (4)

Prereq: jr and 8 hrs GEOG. Systematic survey of global population concerns including distribution, composition, fertility, mortality, density, international migration policies, and impact of these on world population growth and resources.

322 Settlement Geography (4)

Prereq: jr and 8 hrs GEOG. Survey of American rural settlement and its European antecedents. Emphasis on the evolution and regional variation in property, field, fence, and road patterns on farmsteads and in small towns.

324 Industrial Geography (4)

Prereq: jr and 8 hrs GEOG. Industrial location. Theories of industrial location and factors explaining industrial activity especially as related to economic development.

325 Political Geography (4)

Prereq: 121 or perm. Systematic examination of basic approaches, historical development, special problems, and spatial concepts in political geography. Case studies emphasize nation-state.

326 Urban Geography (4)

Prereq: jr and 8 hrs GEOG. Introduction to urban literature including models of land use change over time, social area analysis and factorial ecology, open space and parks, design principles of the "new urbanism", sprawl, and other urban impacts on the metropolitan region. Emphasis on North America.

328A Historical Geography of the United States (4)

Prereq: 121 or HIST 211. Systematic and regional survey of past human geographies of the United States from 1450 until the present. Focus on the development of regional identity over time and space, and manifestations of regional identity in the cultural landscape.

330 Geography of Western Europe (4)

Prereq: jr and 8 hrs GEOG. Topical survey of Europe with emphasis on the geographic and cultural historical factors that influenced landscape and regional patterns in the past and today.

331 Geography of Africa I (4)

Prereq: jr and 8 hrs GEOG. Systematic examination of four themes in African geography with special emphasis on problems of development.

332 Geography of Africa II (4)

Prereq: jr and 8 hrs GEOG. Regional survey of one or more of major areas of tropical Africa.

335 Latin America (4)

Prereq: jr and 8 hrs GEOG. Regional survey of Latin America focusing on biophysical systems, rural development, population/migration, cultural geography, and economic development.

338 Southeast Asia (4)

Prereq: jr, 8 hrs GEOG. Survey of physical geography, natural resources, population, food production, urbanism, and energy within selected regions.

344 Agricultural Ecosystems (4)

Prereq: jr and 8 hrs GEOG. Agricultural activity. Systematic analysis of agricultural change and sustainability of agricultural systems in the industrial and developing world. A spatial perspective on the globalization of agriculture, agro-biotechnology, and the future of agriculture.

350 Land Use Planning (4)

Prereq: jr and 8 hrs GEOG. Survey of land use issues including mapping, ownership, legal issues, zoning, conservation design in zoning, subdivision regulations, "takings," and habitat-conservation planning. Many practical applications are included in the class.

353 Environmental Planning (4)

Prereq: jr and 8 hrs GEOG. An introduction to the development, implementation, and operation of activities to guide landscape development. Emphasis on interaction between natural and social systems, methods of environmental analysis, and the evolution of environmental planning strategies.

360 Cartography (5)

Prereq: geog major. Introduction to basic design and principles of aesthetically pleasing maps, emphasizing legibility to map user. Pen and ink map construction ranging from simple compilation to scale reduction and multicolor composition. 3 lec, two 2-hr labs.

361 Statistical Cartography (5)

Prereq: 360. Cartographic techniques of representing quantitative data on maps. 3 lec, two 2-hr labs.

365 Air Photo Interpretation (5)

Prereq: jr, GEOG 101. Principles, techniques, and practice in visual interpretation of air photographic and remote sensing imagery. For geographers, geologists, military, community planners, resource managers, engineers. 3 lec, 4 lab.

375J Library Research and Writing (4) (1J)

Prereq: perm. Research materials, methods of investigation, and presentation of geographic data.

406 Introduction to Synoptic Meteorology (5)

Prereq: 305. The construction and analysis of meteorological models used in the prediction of meteorological phenomena.

407 Advanced Synoptic Meteorology (5)

Prereq: 406. Capstone course in meteorology. Advanced topics in synoptic meteorology.

411 Advanced Physical Geography (4)

Prereq: 101. Application of physical geographic principles to a specific advanced research theme.

417 Landscape Ecology (4)

Prereq: 316, PBIO 425, or BIOS 275. Explores the landscape mosaic, focusing on the heterogeneous patterns of ecosystems, the interaction of these landscape elements, and how they change over time.

427 American Rural Vernacular Architecture (4)

Prereq: jr and 8 hrs GEOG. Consideration of temporal and spatial characteristics of American rural vernacular buildings and importance of preserving ordinary structures.

440 Environmental Impact Analysis (4)

Prereq: jr and 8 hrs GEOG. Introduction to analytic techniques, legal responsibilities, and administrative procedures in evaluating environmental impacts of land use change. Practice in production of environmental impact statements and in documenting scientific research.

447 Resource Management (4)

Prereq: 241. Themes in American environmental history, contemporary environmentalism, and methods of resource assessment and management.

455 Evolution of Planning (4)

Prereq: jr and 8 hrs GEOG. Evolution of urban planning in U.S. during 19th and 20th centuries. Housing, parks, ideal communities, intellectual attitudes, zoning and subdivision case law, federal intervention, present programs.

466 Remote Sensing (5)

Prereq: 271 or equiv. Application of computer-based statistical patterns recognition techniques to the digital analysis and classification of remotely-sensed imagery.

468 Automated Cartography (5)

Prereq: 360 or perm. Introduction to automated techniques for compiling and producing maps. Issues range from reapplication of manual techniques in a computer environment to fully automated production and GIS.

471 Quantitative Methods (4)

Prereq: jr and 8 hrs GEOG. Systematic survey of methods of multivariate analysis used by geographers. Practice using statistical packages for personal computers.

475 Analysis of Geographic Systems (4)

Prereq: jr and 8 hrs GEOG. Introduction to the methods of systems analysis and modeling directed to the study of physical, human, and environmental processes and their interaction at regional and global scales.

476 Field Methods (4)

Prereq: 271. Introduction to geographic field methods and techniques. Field mapping, data collection, spatial sampling, data analysis, synthesis, and reporting. 2 lec, two 2-hr labs.

478 Geographic Information Systems (5)

Prereq: 260 and 271 or equiv. Introduction to the development and utilization of computer data base management systems for the capture, storage, and analytic manipulation of geographic data following the raster model. 3 lec, two 2-hr labs.

479 Advanced Geographic Information Systems (5)

Prereq: 260 and 271 or equiv. Principles and techniques used in the design of vector-based GIS with emphasis on relational data models, vector/raster integration, data quality and advanced cartographic modeling. 3 lec, two 2-hr labs.

481 Senior Seminar (2)

Prereq: sr geog major. Selected topics.

485 Internship (max 15)

Prereq: upper division geog major. Provides qualifying students with credit for work-study experience in cartography, remote sensing, land use planning, resource management, and other fields of applied geography. Supervised by geography faculty and evaluated by on-the-job supervisor. Lengthy report culminates experience.

486 Practicum in Cartography and Remote Sensing (2-5)

Prereq: 360, 361, 466, jr geog major, and perm. Individualized undergraduate thesis-level work—theoretical or practical—in cartography and/or remote sensing.

490 Geographic Studies (1-5, max 5)

Prereq: jr, perm. Supervised studies in fundamentals of geographic research.

494 Field Problems (4)

Prereq: geog major or perm. (spring) Research on field problem using standard geographic field methods.

Geological Sciences (GEOL)**101 Introduction to Geology (5) (2N)**

Nature and distribution of earth materials and their utilization as natural resources; discussion of earth structure, earthquakes, mountain building, and continental drift; development of landscapes. 4 lec, 2 lab. Not open to students who have had 283.

120 The Mobile Earth (4) (2N)

An examination of the earth's dynamic systems including continental drift, sea-floor spreading, mountain building, volcanic activity, and earthquakes, and their explanation in terms of plate tectonic theory. Intended for both science and nonscience majors seeking a nontechnical overview of plate tectonics. 4 lec.

130 Geology of the National Parks (4) (2N)

Survey of the geologic features of the national parks of the United States, emphasizing the history of their geologic development. 4 lec.

205 Statistical Methods in Geology (4)

Prereq: 101, CS 220 or 230. (winter) *M. Stoertz*. Elementary statistics applied to geologic data. Use of statistical software, spreadsheets, and tools for geologic data analysis (e.g., Rose and Stiff diagrams). Labs will use data sets from branches of geology including hydrology, sedimentology, geophysics, structural geology, and paleontology. 3 lec, 2 lab.

211 Introductory Oceanography (4) (2N)

Survey of physical, chemical, biological, and geological aspects of oceanography. 4 lec.

215 Environmental Geology (4) (2A)

Survey of geological aspects of environmental crisis. Focus on major environmental processes, immediate and extended influence of humans, and prospects for future of physical environment. Presupposes no background in sciences. 4 lec.

221 Earth and Life History (4) (2N)

T. Worsley. A nontechnical survey exploring the 4.5 billion year history of the interaction between life and the environment. Topics include the origin of the earth, the origin and development of life, the origin and evolution of the continents, the history of the atmosphere and ocean, catastrophic extinctions, and the impact of human evolution.

231 Water and Pollution (4) (2A)

D. Lopez. The interrelationship between geologic and hydrologic principles and technology as they relate to the use of water resources and the environmental problems associated with its pollution.

255 Historical Geology (4)

Prereq: 101. *G. Nador*. An introduction to the geologic history of the Earth, emphasizing the tectonic, stratigraphic, and climatic record of North America. 3 lec, 2 lab.

270 World Mineral Resources (3)

Prereq: soph. *G. Heien*. Major deposits of metal, nonmetallic, and fuel resources which form backbone of modern industry. Economics and basic geologic controls of mineral production reviewed. 3 lec with demonstrations. Not open to geology majors.

283 Geology for Engineers (4)

(fall) *M. Stoertz*. Geologic principles applied to engineering projects and materials. 3 lec, 2 lab. Not open to students who have had 101.

312 Earth Materials and Resources (5)

Prereq: 101, CHEM 122 or 152, nonmajors only. *G. Heien*. An introduction to minerals and rocks, emphasizing common varieties and those important as mineral resources. 3 lec, 4 lab.

315 Mineralogy (5)

Prereq: 101, CHEM 152. (fall, spring) *G. Heien*. Crystallography, crystal chemistry, and mineralogy, emphasizing mineral identification and formation and association of minerals in different geologic environments. 3 lec, 4 lab.

320 Rocks (3)

Prereq: 315. (fall, winter) *G. Heien*. Characteristics and origin of igneous, sedimentary, and metamorphic rocks and their identification in hand specimens. 2 lec, 2 lab.

330 Principles of Geomorphology (5)

Prereq: 101. (winter, spring) *G. Smith*. Basic concepts of origin and development of landforms. Lab study of topographic maps and aerial photographs. 4 lec, 2 lab.

340 Principles of Invertebrate Paleontology (4)

Prereq: 101, 255. (fall) *R. Mapes*. Invertebrate fossils emphasizing theory of their study, morphology, classification, and biologic relationships. 3 lec, 2 lab, field trip.

350 Stratigraphy-Sedimentology (4)

Prereq: 255 or concurrent, 320. (spring) *D. Kidder*. Introduction to principles of stratigraphy and sedimentation. Interpretation of depositional environments and their relation to plate tectonic setting. 3 lec, 2 lab.

360 Structural Geology (5)

Prereq: 350. (fall) *D. Nance*. Principles of rock deformation and interpretation of folding and faulting and related topics. Field-oriented structural problems, structural maps, and use of stereographic projections. 4 lec, 2 lab, field trip.

402 International Geology Field School (15)

Prereq: major, 315, 320, 330, 350, 360, one year college Spanish. (summer) *D. Nance*. Field examination of the geological evolution of North America. Introduction to field methods and field geology. Geologic mapping in deformed sedimentary, igneous, and metamorphic terranes. Ten-week course conducted in Mexico, Arizona, the central Appalachians, and Nova Scotia. 5 lec, 20 lab.

405 Modeling and Computational Methods in Geology (5)

Prereq: CS 220 or 230, MATH 163B or 263B, GEOL 205 or MATH 250. (spring) *D. Lopez*. Applied computer-based mathematical methods in geology. Basic geostatistical concepts. Data analysis, conceptual models, and hypothesis testing in geological problems. Mathematical simulation of geological processes and analysis of solutions. Programming exercises in Fortran and use of software to model processes in hydrogeology, geochemistry, and other fields of geology. 4 lec, 2 lab.

411 Mineral Deposits (4)

Prereq: 320. *G. Heien*. Geologic and geochemical processes by which mineral deposits form, and their relationship to plate tectonics. 4 lec.

413 Optical Mineralogy (4)

Prereq: 320 or concurrent. (fall) *G. Heien*. Optical characteristics of minerals and identification of minerals with the petrographic microscope. 2 lec, 4 lab.

422 Igneous and Metamorphic Petrology/Petrography (4)

Prereq: 360, 413. (spring) *G. Heien*. Petrogenesis of igneous and metamorphic rocks and their identification in thin section. 2 lec, 4 lab.

424 Sedimentary Petrology/Petrography (3)

Prereq: 350, 413. (winter) *D. Kidder*. Petrogenesis of sedimentary rocks and their description and classification in hand specimen and thin section. 2 lec, 2 lab.

427 Water Geochemistry (4)

Prereq: 101, CHEM 153. *D. Lopez*. Geochemical origin of major ions in natural waters and the role of fluid-mineral interactions in the evolution of sediments, the ocean, and the atmosphere. Major geochemical cycles. Introduction to thermodynamical equilibrium, kinetics, complexation, oxidation-reduction, and cation exchange. Case studies of important geochemical and environmental issues. 3 lec, 2 lab.

428 Physical Geochemistry (4)

Prereq: 427. *D. Lopez*. Basic principles of physical chemistry for hydrogeologic, environmental, and geologic applications. Topics include adsorption and desorption reactions, chemistry of sulphur and iron, introduction to stable isotopes, transport mechanisms of chemical species, and origin, formation, and migration of oil. 3 lec, 2 lab.

432 Origin and Classification of Soils (4)

Prereq: 330. *G. Smith*. Consideration of concept of soil and factors of soil formation, introduction to soil morphology and systems of soil classification, discussion of major soil groups of world and soils of Ohio. 3 lec, 2 lab, field work.

433 Glacial Geology (4)

Prereq: 330, 350. *G. Smith*. Formation and behavior of glaciers, past and present, consideration of glacial processes, and causes and implications of ice ages. 3 lec, 2 lab, field trips.

434 Introduction to Remote Sensing (4)

Prereq: 330, 360. *G. Smith*. Principles of interpretation and analysis of satellite imagery in resolution of geologic problems. 2 lec, 4 lab.

443 Advanced Invertebrate Paleontology (5)

Prereq: 340. (winter) *R. Mapes*. Study of selected groups in Phylum Mollusca with details of modern biology, environmental habitats, life modes, etc., applied to fossil record. 3 lec, 4 lab.

446 Earth Systems Evolution (4)

Prereq: 312 or 350; PHYS 201 or 251. (winter) *T. Worsley*. Synthesis of the coupled histories of the earth's interior, surface, and life. 3 lec, 2 lab.

451 Diagenesis (4)

Prereq: 424. (spring) *D. Kidder*. Critical view of diagenetic principles using numerous examples. Many topics are selected from recent journal articles. Students read, present, and discuss current literature, as well as writing a term paper. 4 lec.

452 Depositional Environments (4)

Prereq: 350. (spring) *D. Kidder*. Advanced coverage of depositional processes and environments. Latter part of course focuses on global sedimentation and events. Students read, present, and discuss current literature, as well as writing a term paper. 4 lec.

457 Petroleum Geology (4)

Prereq: 360 or concurrent. (spring) *G. Nadon*. Course is designed for geology students at the senior undergraduate and graduate level. It will provide students with an understanding of the basic concepts and processes that govern a) the generation, migration, and trapping of hydrocarbon resources, and b) the fundamentals of exploration for, and exploitation of, these resources. 3 lec, 2 lab.

464 Regional Tectonics (4)

Prereq: 360. (spring) *D. Nance*. Global tectonics and structure of continental cratons and margins, mid-ocean ridges, island arcs, and major orogenic belts. 4 lec.

466 Geodynamics: The Earth's Interior (4)

Prereq: 312 or 320. (spring) *D. Green*. Solid earth geophysics (gravity, magnetics, seismicity, heat flow) and internal structure, dynamics, and evolution of Earth's core, mantle, and crust.

467 Tectonophysics (4)

Prereq: MATH 340, PHYS 202 or 253. (winter) *D. Green*. Quantitative modeling of solid earth physical processes. Physical properties of minerals, rocks, and unconsolidated materials. Modeling of tectonic plate flexure, geothermal heat flow, seismic wave propagation, and fault mechanics. 4 lec.

471 Advanced Environmental Geology (4)

Prereq: 101, CHEM 153. (fall) *D. Lopez*. Covers the conceptual basis for understanding transport and reaction processes that govern change in many environmental systems. Emphasizes processes occurring at the three major environmental interfaces: air and water, water and the adjoining earthen material, and air and soil. Includes chemical and thermal equilibrium, chemical transport, and transport and transfer of energy across the interfaces. 4 lec.

476 Subsurface Methods (4)

Prereq: 350. (winter) *G. Nadon*. Resumé of drilling, sampling, and logging by electric, radioactivity, temperature, and neutron methods as applied to petroleum exploration, water, and engineering projects. 3 lec, 2 lab.

480 Principles of Hydrogeology (4)

Prereq: 101 or 283, MATH 163B or 263B, PHYS 202 or 253. (fall) *M. Stoertz*. Principles governing occurrence, movement, and recovery of water in soil and aquifers. Hydrologic cycle, water budget, hydrology of agriculture, watershed studies, water chemistry, and pollution. 3 lec, 2 lab.

481 Groundwater Flow Modeling (4)

Prereq: 480, CS 230. (winter) *M. Stoertz*. Steady and unsteady flow to well, analysis of pumping test data, water well design, well development, interference of wells, and design of well fields. 3 lec, 2 lab.

482 Transport Processes in Groundwater (4)

Prereq: 481, MATH 340. (spring) *D. Lopez*. Basic principles and fundamental equations; D.E. of groundwater motion, solution of boundary value problems for different types of aquifers. Analytical and numerical methods in subsurface hydrology with emphasis on finite difference method; digital model. 4 lec.

483 Field Hydrology (6)

Prereq: water resources background. (summer) *K. Edwards, D. Green, D. Lopez, M. Stoertz*. Field training in techniques of hydrology, hydrogeochemistry, and water resources evaluation. 3 wks.

485 Introduction to Applied Geophysics (4)

Prereq: PHYS 202 or 253. (fall) *D. Green*. Introductory course in environmental and geotechnical geophysics. Survey of applied geophysical methods including seismic, gravity, magnetic, electrical, and electromagnetic techniques. 3 lec, 2 lab.

486 Applied Seismology (4)

Prereq: 485. (spring) *D. Green*. Field methods and analysis techniques for seismic characterization of shallow subsurface, multichannel digital data acquisition, generalized reciprocal refraction and common offset refraction techniques as practiced in environmental and geotechnical industries. 4 lec.

489 Advanced Topics in Hydrogeology (1-4)

Prereq: 480, perm. *M. Stoertz, D. Lopez*. In-depth study of an advanced or current topic in hydrogeology, exploring (but not limited to) such areas as karst hydrogeology, fracture-flow hydrology, mine hydrology, unsaturated flow, and inverse modeling. Consult instructor for topics.

490 Seminar in Geology (1-2)

Prereq: perm. Several seminars on specific topics in geological sciences will be offered yearly. It is recommended that all majors participate in at least one seminar.

491 Geologic Studies (1-6, max 12)

Prereq: perm. Staff. Individual or small group independent study arranged with faculty members.

495 Senior Thesis (1-5)

Prereq: perm. Independent research project requiring departmental approval of thesis proposal before registering. Required for departmental honors program.

German

See Foreign Languages and Literatures.

Gerontology

Undergraduate Certificate

The Colleges of Arts and Sciences and Health and Human Services (through its Institute for the College of Health and Human Services) cosponsor a Gerontology Certificate Program for students who desire to supplement their undergraduate curriculum with a career in working with or for the elderly. This program is open to any undergraduate student in the university. See the College of Health and Human Services section.

Government

See Political Science.

Greek

See Foreign Languages and Literatures.

Hazardous Materials Technology (HMT)

The following courses for the A.A.S. in hazardous materials technology are available only on the Chillicothe campus.

110 Hazardous Materials Regulation I (4)

Addresses U.S. laws and regulations that pertain to environmental law and liabilities associated with handling hazardous materials. Topics include the basics of environmental law, liability and enforcement, Resource Conservation and Recovery Act (RCRA), transportation of hazardous materials, and the Clean Air Act. Current events will be discussed and analyzed.

120 Hazard Communication Standard (3)

Emphasis on hazard communication programs, their development and implementation, and their compliance with federal Hazard Communication Standard and "Right-to-Know" laws. Topics include Material Safety Data Sheets (MSDS), written programs, employee training, and labels and placarding.

130 Industrial Processes (3)

Generation of hazardous materials in such settings as electroplating, metal finishing, printed circuit board production, oil refining, chemical production, steel production, paper industry, and various other production areas. Emphasis on acute and chronic exposure. Hazardous materials handling and minimized waste generation will be covered.

140 Hazardous Materials Regulation II (4)

Prereq: 110. The Environmental Protection Agency (EPA) is the major focus. Included are the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA); Superfund Amendments and Reauthorization Act (SARA); the Clean Water Act; the Safe Drinking Water Act; the Oil Pollution Act; and the National Environmental Policy Act (NEPA). Regulatory compliance is a major topic, with some case studies.

150 Emergency Response I (3)

Emphasizes the development of emergency response contingency plan for a facility. Includes analyzing hazards, writing and implementing contingency plans, training employees for an emergency, and evaluation of the contingency plan. Emergency operations are also explored, with emphasis on field exercises incorporating drum handling, instrumentation surveying, decontamination procedures, personal protective equipment, and medical evaluations.

200 Hazardous Materials Recovery, Incineration, and Disposal (4)

Prereq: EVT 100. Directed toward the recovery, incineration, and disposal of hazardous waste. Topics include the contracting of qualified disposal organizations, obtaining permits, and ensuring compliance of hazardous waste. On- and off-site treatment technology as well as chemical and physical characteristics of hazardous materials and waste are discussed. Environmental contamination for air, water, and land is explored. Some air dispersion modeling is included.

210 Hazardous Materials Regulation III (4)

Prereq: 140. Final course in the regulation series; addresses the Toxic Substances Control Act (TSCA), asbestos regulations, pesticides, the Emergency Planning and Community Right-to-Know Act (EPCRA), and the OSH Act. Case studies, class participation, and reports are emphasized.

220 Hazardous Materials Health Effects (3)

Prereq: BIOL 101. Literature review of human health risks related to chemical exposures. A study of risk factors, types of chemical entry, effects on organs, acute and chronic effects, and measures to control exposure.

230 Emergency Response II (3)

Prereq: 150. Application of emergency response procedures under simulated emergency conditions. Students respond to the emergency, assess the seriousness of the incident, supervise cleanup, and provide information to the public and media. Students successfully completing this course will be certified at the First Responder Awareness Level and Operations Level.

240 Hazardous Materials Testing (4)

Prereq: 200. Development of an effective field sampling program for hazardous materials. Includes proper sampling procedures, use of hazardous materials testing equipment, and chemical analysis of hazardous waste materials. Students will become proficient in the use of sampling equipment as well as portable and laboratory-based qualitative and quantitative analytical apparatus used in routine and emergency situations.

289 Special Topics (1-5)

Prereq: 100, HMT advisor perm. Special topics in hazardous materials. Areas include OSHA's 40-Hour Compliance Training, instrumentation, internships, co-ops, and special studies.

Health and Human Services (HS)**102 HCOP Six-Week Skill Enrichment (5)**

Prereq: HCOP student. Six-week prematriculation program for entering minority freshmen majoring in selected health-related programs. Skill enrichment in math, biology, composition, computer word processing, and study techniques through lecture and lab experiences. Clinical visits and observations at various health care facilities provide students with exposure to allied health professions.

309 Microcomputer Applications in the Health Sciences (4)

Prereq: Health and Human Services major. Provides students with knowledge of and experience with microcomputer-based programs in word processing, data base management, and spreadsheet applications to solve problems often encountered in health-related areas. No credit awarded if CS 120 or MIS 100 has been taken.

491 Special Topics in Gerontology (1-4; maximum credit from all enrollments is 8)

Prereq: jr. Examination of various contemporary trends and issues in the study of geriatrics. Draws upon current literature and research for in-depth consideration of special topics in gerontology.

Health Sciences**Environmental Health (EH)****260 Introduction to Environmental Health and Safety (4)**

(fall, spring) Survey of technical and administrative procedures needed to control the environment, especially as they relate to health effects encountered in daily activities. Emphasis on general ecological environmental protection and environmental degradation, along with safety concepts, practices, and procedures. 4 lec.

275 Environmental and Occupational Health and Safety Regulations (4)

Overview of the history, development, and current application of major regulations, amendments, and reauthorizations related to the environmental and occupational health and safety regulatory process. 4 lec.

310 Water Supply and Wastewater Environmental Health Practice (4)

Prereq: 260, CHEM 153. (fall, winter) Examination of processes for the development of water resources, quantity and quality requirements, preventive control measures and treatment, collection of wastewaters, and treatment for disposal or reuse. Health implications of water quality management stressed. 3 lec, 2 lab.

312 Solid and Hazardous Waste Management (4)

Prereq: 260. Problems in and solutions to the storage, collection, and disposal of hazardous and nonhazardous wastes with special emphasis on the planning and management aspects of designing, organizing, and operating refuse collection and disposal systems. 4 lec.

320 Shelter Environments (4)

Prereq: 260. Physiological and psychological aspects of exterior and interior environmental concerns. Emphasis on housing standards, building codes, vector control, separate concerns of urban and rural housing, migrant labor housing, mobile home construction, and mobile home park design. 4 lec.

330 Food Quality Control (4)

Prereq: 260; MICR 211, 212. Emphasizes the topics of foodborne diseases and regulatory programs relative to sanitary inspection and control of food service and processing systems. 3 lec, 2 lab.

430 Vector Control and Pesticide Use (4)

Prereq: 260. (spring) Vectors responsible for rodent- and anthropoid-borne diseases of medical and veterinary importance with special emphasis on human health and welfare implications. 3 lec, 2 lab.

440 Air Quality and Pollution Control (4)

Prereq: 260, CHEM 153. (Evaluating and monitoring air quality; effects of pollution control and lab procedures in air quality investigation. Special emphasis on air pollution's effects on human health and welfare. 3 lec, 2 lab.

450 Institutional Environmental Health Practice (4)

Prereq: 260. Emphasis on the institutional aspects of shelter as they relate to disease prevention and control within hospitals, nursing homes, day care centers, schools, and correctional facilities. 4 lec.

455 Recreational Environmental Health Practice (4)

Prereq: 260. Broad view of all major aspects that should be considered in the planning, development, and operation of recreational environments as they relate to proper environmental health protection. 4 lec.

457 Environmental Health Planning and Program Administration (4)

Prereq: 260. Provides knowledge and understanding of processes involved in the development and operations of environmental health programs. Focus on implementation, maintenance, and evaluation of regulatory programs, with emphasis on project management, environmental planning, program administration, and risk communication. 4 lec.

464 Environmental Health Practicum (15)

Prereq: sr, perm, major. Supervised learning experience in an approved clinical/environmental health facility designed to provide the student with practical comprehensive opportunities in environmental health to enhance and complement required classes.

490 Independent Study (1-5)

Prereq: major and perm.

Health Sciences (HLTH)**101 Introduction to Health and Human Services Professions (2)**

Course examines various roles of health care professionals in health care delivery system, describes education and training program options, explores opportunities for employment, and introduces medical terminology. Students receive credit (CR), not a letter grade. 2 lec.

105 Preventing Sexual Violence (4)

(fall, spring) Provides both male and female students with information about sexual violence, its different forms, frequencies, and impact. Students gain an understanding of cultural influences, offender and survivor characteristics, and support services. Information and skills directed at reducing students' likelihood of being involved in sexually offensive/violent situations. 4 lec.

202 Health Sciences and Lifestyle Choices (4) (2A)

Practices and appreciation of means whereby health of individual and group may be maintained. 4 lec.

204 Alcohol, Tobacco, and Other Drugs (4)

Presents basic pharmacology and toxicology of common drugs, alcohol, and tobacco and consequences of their abuse. 4 lec.

205 AIDS Education and Prevention (4)

Examines the signs and symptoms, methods of transmission, treatment, and prevention of AIDS. Emphasis on education as a means to reduce the risks of becoming infected with HIV. 4 lec.

217 Introduction to Health Care Organizations (4)

Prereq: 202. Focuses on U.S. health system, describing health care institutions, providers, payment practices, and significant health legislation. Discusses trends and future perspectives against historical background. Assists manager to develop panoramic view of health care organizations. 4 lec.

225 Long-Term Care Administration I (4)

Prereq: MGT 200. (fall) Presents laws, regulations, and standards that impact long-term care facilities management. Discusses client rights and responsibilities and their implications in managing such facilities. Stresses ethical and moral issues confronting manager. Reviews risk management and strategies for providing safe and comfortable environment. 4 lec.

230 Medical Terminology for Health Administrators (4)

Prereq: BIOL 101 or BIOS 103 or BIOS 170. Medical terms associated with body systems, disease processes, laboratory tests, and clinical procedures commonly found in the health care setting. Emphasis on the development of appropriate administrative policies and procedures based on selective disease processes. 4 lec.

316 Human Resource Management and Training in Health Care (4)

Introduces students to the management and development of personnel within various health care settings. Examines and analyzes various human resource issues within the unique health care arena. 4 lec.

325 Long-Term Care Administration II (4)

Prereq: 225. (winter) Presents managerial ideologies important to manager of long-term care facilities. Fully develops role of administrator in planning, organizing, directing, controlling, and staffing for specific services of long-term care facilities within holistic framework for client care. Studies professional relationships and coordinating function of manager. Includes contributions of rehabilitation and recreation services to long-term care. 4 lec.

330 Community Health Epidemiology (4)
Prereq: 202, jr. Use of epidemiology by community health providers to prevent health disorders and to plan for meeting the health needs of populations. Special focus on the use and interpretation of morbidity and mortality data in studying acute and chronic disorders. 4 lec.

335 Administration of Acute Care Facilities (4)
Prereq: jr. (winter, spring) Focuses on the understanding, skill, and ethical issues important to the management, organization, planning, financing, and evaluation of an acute health care facility and its services to patients. Emphasis on the administrator's role in an acute health care facility. 4 lec.

340 Contemporary Problems in Health Care Organizations (4)
Prereq: jr. (fall, winter) Identifies the major issues in the development and management of a wide range of health care programs and organizations. Provides exercises in the application of management skills necessary to confront the major changes and problems identified. 4 lec.

350 Independent Study (1-5)
Prereq: jr, perm. Study and/or research in selected topics of interest to students in health sciences.

364 Community Health Field Experience (1-5)
Prereq: 202, jr. Observation and participation in activities of community health agency or medical facility or program.

370J Writing for Health Sciences (4) (1J)
Prereq: jr or sr. Designed to improve the technical writing skills of students in health or health-related fields. Writing tasks are designed to provide students with experience in writing within formats and subject areas of their field of study. 4 lec.

379 Teaching of Health (5)
Prereq: 202, jr. Instruction, principles, and curricula used in presenting health information to pupils in elementary and secondary schools. 5 lec.

390 Community Health (4)
Prereq: 202, 204, jr. Institutional frameworks for promoting and maintaining health of people of community, state, and nation. 4 lec.

405 Long-Term Care Administration III (4)
Prereq: 325. (spring) Deals with administrative processes in long-term care management. Orients student to modern information systems and use of data in managing decision action and record keeping. Presents content on building effective public relations, managing volunteer programs, and in supporting client governance. Prepares student to sit for licensure exams. 4 lec.

410 Health Issues: U.S. Underserved Populations (4)
Prereq: jr, 202, 204, 390. In-depth analysis of critical health issues germane to underserved populations in the United States. Emphasis on those groups suffering the most profound consequences of health problems and disease. 4 lec.

412 International Health Programming (4)
Prereq: jr. Addresses diverse, rapidly changing health problems in underdeveloped and industrialized countries while exploring roles of health professionals. Surveys program interventions and solutions that are available or under development. 4 lec.

413 Health Aspects of Aging (4)
Prereq: 202. (winter, spring) Theories of aging involving changes in structure and performance presented. Emphasis on normal aging changes, mental health, health promotion, and community health. 4 lec.

418A Instructional Experiences (1-3)
Supervised practice in organizing and teaching activities in college.

419 Health Education for the Elementary School (4)
Prereq: 202. Application of principles of curriculum development, identification of appropriate concepts and practices, and use of teaching methods and resources at elementary school level. 4 lec.

421 Financial Administration of Health Care Facilities (4)
Prereq: ACCT 201, sr. Emphasis on the interpretation and application of accounting and financial concepts of health services with an introduction to strategic financial planning. 4 lec.

422 Reimbursement Payment Systems in Health Care Organizations (4)
Prereq: ACCT 201, sr. Analysis of reimbursement systems for acute care, long-term care, home care, and alternative care systems. Both current and projected systems will be examined. 4 lec.

425 Controlling Stress and Tension (4)
Prereq: 202. (fall) Holistic approach to stress management covering recognition of tension, physiological response, relaxation techniques, and individual stress profile. 2 lec.

427 Health of Women (4)
Prereq: jr. The health needs and concerns of women within the physical, mental-emotional, and social dimensions of functioning are examined. Emphasis on women as health care and product consumers is provided. 4 lec.

430 Worksite Health Promotion (4)
Prereq: sr. Examination of worksite health promotion programs. Guidelines for development of health promotion programs in corporate settings discussed. 4 lec.

464 Community Health Services Practicum (15)
Prereq: 364, sr, perm. Participation in activities of official or voluntary public health agency. Supervision of experience to be done by agency personnel and university faculty.

480 Practicum in Health Services Administration (10)
Prereq: perm. Provides a practical field experience in the operational skills necessary to manage a health care organization. The student works under the direct supervision of health care managers and carries out assigned tasks, which may include the direct provision of care, development of programs, maintenance of systems, and management of data.

481 Internship in Health Administration (15)
Prereq: perm, completion of coursework. Provides an administrative/programmatic experience under the direct supervision of an administrator in a health-related organization. Students complete supervised projects, plans, and other administrative tasks under the joint supervision of a health care facility administrator and a university faculty member.

489 Community Health Planning and Administration (4)
Prereq: sr. Effective planning and management techniques germane to community health service settings in regard to approaching and addressing health problems. Emphasis placed on assessing health needs, relating those needs to particular population groups, analysis of the economics involved, program recommendations, as well as program implementation. 4 lec.

490 Independent Study (1-5)
Prereq: jr or sr, perm. Allows for special study of topics of interest to students of health care programming and administration.

491A-F Special Topics Workshops (1-3)
Prereq: perm. (A) focuses on administrative practices and issues; (B) focuses on environmental and occupational health and safety; (C) focuses on legal aspects; (D) focuses on client-centered care programs; (E) focuses on team-building and interpersonal relationship skills; and (F) focuses on intercommunity relationships and consortia arrangements.

495 School Health Problems (5)
Prereq: sr. (fall) Principles, problems, organization, and administration of school health programs, including health services, healthful school environment, health instruction, and school and community relationships. 5 lec.

Industrial Hygiene (IH)

200 Introduction to Industrial Hygiene and Occupational Safety and Health (4)
Introduction to occupational safety and health and industrial hygiene including historical developments, health and safety program concepts, social and legislative requirements, professional relationships, and general introduction to concepts of anticipation, recognition, evaluation, and control of exposures. 4 lec.

400 Industrial Hygiene Sampling and Analysis (5)
Prereq: 200. Lectures and lab to introduce field sampling and lab instrumentation and analytical methods common to industrial hygiene. Students required to interpret readings, analyze samples, and prepare appropriate reports. 3 lec, 3 lab.

401 Toxicological Effects of Hazardous Materials (4)
Prereq: 200. Basic toxicology of hazardous dusts, fumes, vapors, gases, and liquids found in the workplace. Techniques necessary to recognize, evaluate, and control exposure to organic solvents, metals, asbestos, lead, radon, and other substances will be introduced. 4 lec.

405 Ventilation for Contaminant Control (4)
Prereq: 200. Designed to impart a working knowledge of the principles, methods, and practices of controlling worker exposure to hazardous concentrations of air contaminants and to present logical methods of design, evaluation, and maintenance of such systems. 4 lec.

410 Physical Hazards: Evaluation and Control (4)
Prereq: 200. Designed to provide a functional knowledge of methods used to evaluate and control noise, vibration, heat, light, and other factors affecting the health and well-being of the worker. 4 lec.

415 Introduction to Radiological Health: Evaluation and Control (5)
Prereq: 200. Introduction and overview of health effects of various sources of radiation including sources, evaluation, safety, and control factors. 3 lec, 3 lab.

420 Hazardous Material: Management and Control (4)
Prereq: 200. Lectures on gases, vapors, dusts, liquids, and solids and their physical and chemical properties. Emphasis is upon evaluation and control methods. Student is required to develop controls for specific cases and present them in technical reports. 4 lec.

Hearing and Speech Sciences (HSS)

107 Voice and Articulation (2)

Designed to help student recognize, evaluate, and compensate for or improve speech production characteristics. 2 lec.

108 Introduction to Communication Disorders (5) (2A)

Symptoms, causes, effects, and evaluation of disorders of speech sounds, voice, language, and hearing. 5 lec.

207 English Pronunciation—International Students (2)

Prereq: successful completion of OPIE or comparable proficiency in English. (arranged) Group and individual instruction and pronunciation of sounds, rhythm, and stress patterns of English for international students and non-native speakers of English. 1 lec, 2 lab.

208 Phonetics (5)

(fall, spring) Speech sounds from sociological and physiological point of view. Mastery of International Phonetic Alphabet and English phonetic transcription. 4 lec, 2 lab.

240 Professional Orientation (3)

Prereq: HSS major, soph. (fall, spring) Introduction to therapy training through lecture and videotapes of diagnosis, therapy, and various areas of profession. 2 lec, 2 lab.

252 Speech Science (4)

(fall, winter) Physical properties of speech signals. Analysis of speech and speech perception. Lab exercises and experiments included. 4 lec.

253 Hearing Science (4)

Prereq: 252. (winter, spring) Physiological and psychological aspects of sound and measurement of human hearing, including sound transmission and analysis, electrophysiology of the ear, psychoacoustics. 4 lec.

297T Sophomore Tutorial I (1-15)

298T Sophomore Tutorial II (1-15)

299T Sophomore Tutorial III (1-15)

300 Communication Disorders of the Elderly: Assessment and Rehabilitation (4)

(spring) Basic information concerning nature of minor and major communication disorders, communication aids, and alternative approaches to rehabilitation. 4 lec.

310 Language Development (5)

Prereq: 208. (winter, spring) Provides foundation in normal speech and language development. Development of meaning, symbolic representation, morphology, and syntax. 5 lec.

313 Anatomy and Neurology of Speech (4)

Prereq: jr. (fall, winter) Structures, musculature, and functions involved in respiration, phonation, resonance, and articulation for speech. 4 lec.

336 Speech and Hearing Disorders in the Public Schools (3-4)

Prereq: not open to HSS majors. (arranged) Nature, causes, and treatment of defective speech in public school children with special reference to role of classroom teacher.

341 Pre-Professional Service I (2)

Prereq: 240; pass speech proficiency test. (winter, spring) Diagnosis, planning of therapy, therapy experience in clinical facility. 1 lec, 2 lab.

378 Sign Language (4)

Prereq: jr. not open to HSS majors. Instruction in manual sign language system used by deaf. Emphasis on vocabulary, encoding, and decoding signs to communicate effectively. 4 lec.

379 Basic Manual Communication (4)

Prereq: jr. major. (fall, winter) Basic instruction and practice in fingerspelling and signing used by and for deaf and hard of hearing. 4 lec.

380 Basic Audiology (5)

Prereq: 252, 253. (fall, winter) Anatomy and disorders of audition. Measurement of hearing with pure tone techniques and interpretation of results of such measurements in terms of social and educational handicap. 4 lec, 2 lab.

397T Junior Tutorial I (1-15)

398T Junior Tutorial II (1-15)

399T Junior Tutorial III (1-15)

413 Communication Acoustics (3)

Prereq: Non-HSS major. (spring) Provides telecommunications majors and other interested students with background information in acoustics as related to human speech production and perception. 2 lec, 2 lab.

418 Articulation Disorders (5)

Prereq: 208. (fall, spring) Phonetic acquisition, articulation evaluation. Emphasis on practical approaches to therapy for individuals with articulation disorders. 5 lec.

419 Organic and Structural Communication and Related Disorders (5)

Prereq: 313. (winter, spring) Provides a background on the nature and management of communication disorders caused by injury or malfunction of speech and language mechanism and nervous system. Illustration of case management presented for selected representative cases. 5 lec.

422 Diagnostics (3)

Prereq: 310, sr. Types of diagnosis in evaluation of speech and language problems. Screening tests, use of statistics in testing, basic interview and history procedures. 3 lec.

433 Professional Training Seminar (3-4)

(arranged) Seminar in concepts underlying therapy procedures.

442 Pre-Professional Service II (3)

Prereq: 341. (winter, spring). Diagnosis, planning of therapy, therapy experience in clinic facility. 2 lec, 2 lab.

442A Audiology Practicum (2)

Prereq: admission to pregraduate program. (winter, spring) Experience in audiological diagnosis and evaluation in campus clinical facility and off-campus test sites. 1 lec, 2 lab.

442C Advanced Speech/Language Practicum (2)

Prereq: 442, admission to pregraduate program. (winter, spring) Application of diagnosis, therapy planning, and therapy techniques. 1 lec, 2 lab.

444 Disorders of Language (5)

Prereq: 310. (winter, spring) Introduction to study of language disorders in children. Diagnosis of problems, assessment of language abilities. Methodologies and techniques in perceptual, psychomotor, and language and speech training. 5 lec.

471 Aural Rehabilitation (5)

Prereq: 380. (winter, spring) Differential diagnosis of children with suspected auditory disorders. Basic remedial procedures employed with hearing handicapped. Practice in planning lessons in speech reading and auditory training. 5 lec.

480 Advanced Manual Communication (4)

Prereq: 379. (winter) Advanced instruction and practice in manual communication for students who anticipate study in clinical audiology or education of the deaf and special education.

498 Special Problems (1-15)

Prereq: written proposal and perm.

498T Senior Tutorial I (1-15)

499 Independent Reading in Speech Pathology, Audiology, and Speech Sciences (1-15)

499T Senior Tutorial II (1-15)

History (HIST)

101 Western Civilization in Modern Times (4) (25)

Prereq: fr or soph only. Renaissance to 1648: Renaissance, Reformation, origins of national state system, diplomacy, and imperialism as applied to Portugal, Spain, and Hapsburg Empire, and commercial and scientific revolutions. When possible, majors should take 101-102-103 in sequence.

102 Western Civilization in Modern Times (4) (25)

Prereq: fr or soph only. Continuation of 101. Covers 1648 to 1848: absolutism, constitutionalism, operation of coalition diplomacy, and imperialism as applied to France and Britain; westernization of eastern Europe, Enlightenment, French Revolution, agricultural, commercial, and industrial revolutions and growth of ideologies—liberalism, socialism, and nationalism. When possible, majors should take 101-102-103 in sequence.

103 Western Civilization in Modern Times (4) (25)

Prereq: fr or soph only. Continuation of 101-102. Covers 1848 to present: continued industrial revolution and spread of liberalism, socialism, and nationalism; rise and fall of German bid for power in two world wars; new ideologies of materialism, positivism, Social Darwinism, irrationalism, totalitarianism; Russian and Chinese revolutions and international communism; rise and fall of Western empires in Africa and Asia. When possible, majors should take 101-102-103 in sequence.

121 Western Heritage: Classical Age (4) (2H)

Account of origins of Western heritage from ancient Near East to end of Classical Age. Included are such topics as ancient religions, philosophies, literature, and visual arts with particular emphasis on Greece and Rome.

122 Western Heritage: Medieval Legacy (4) (2H)

Discussion of period from decline of Roman Empire to the Renaissance focusing on development of Judaeo-Christian traditions, concept of civilization, and emergent individualism. Important subtopics include growth of universities, chivalry, scholasticism, and humanism.

123 Western Heritage: Modernity (4) (2H)

Major intellectual currents and cultural results from time of Renaissance to present examined in humanistic perspective. Included are such topics as origins of modern philosophy, languages, revolutions, political ideologies, and cultural pluralism.

131 Introduction to

Non-Western History (4) (2C)

Introduces modern history of non-Western world (Africa, Asia, Middle East, and Latin America) by focusing selectively on significant encounters with the West.

211 American History to 1828 (4) (25)

Prereq: soph. Political, diplomatic, social, and economic development of American history. Covers 1607 to 1828: colonial America, founding of nation, and early national period. When possible, majors should take 211-212-213 in sequence.

212 History of the United States, 1828–1900 (4) (2S)

Prereq: soph. Continuation of 211. Covers 1828 to 1900: Jacksonian democracy, territorial expansion, sectionalism and controversy, Civil War, reconstruction, and impact of expanded Industrial Revolution. When possible, majors should take 211–212–213 in sequence.

213 History of the United States Since 1900 (4) (2S)

Prereq: soph. Continuation of 211–212. Covers 1900 to present: progressive movement, WWI, prosperity and depression, WWII, and problems of Cold War era. When possible, majors should take 211–212–213 in sequence.

246 The Rise of Modern Asia (4)

Introductory survey of the history of a vast region that has experienced considerable changes during the past 150 years. Ten units will compare the national experiences of China, Japan, Indonesia, Vietnam, South Korea, Taiwan, Singapore, and the Philippines through stages of transition from colonialism to independence movements, from agrarian to industrial economies, and from authoritarian dynastic states toward democratic nation-states.

265A Hitler and His Nazis (4)

R. Whealey. Rise of Hitler to 1933; Hitler takeover; totalitarianization of Germany; Nazi foreign policy; WWII: Hitler's war on Jews; Hitler's fall; meaning of fascism.

284 Orwell, 1984, and the Future (4)

R. Whealey. George Orwell's life and works raise issues of imperialism, superpower confrontation, rise of totalitarianism, revolution, capitalism, communism, fascism, and problems of propaganda and civil liberties in America and in communist nations today.

297T Honors Tutorial Seminar, U.S. History (3–5)

Prereq: HTC. (fall) Covers U.S. history, 1607 to present.

298T Honors Tutorial Study, U.S. History (1–5)

Prereq: HTC. (winter) Independent study, U.S. history.

299T Honors Tutorial Study, U.S. History (1–5)

Prereq: HTC. (spring) Independent study, U.S. history.

300A Colonial America to 1689 (4)

Prereq: soph. B. Steiner. English background, establishment of settlements, first economies, evolution of political and religious structures, relations with England, internal conflicts, Glorious Revolution.

300B Colonial America, 1689–1763 (4)

Prereq: soph. B. Steiner. Governmental changes, credit and currency, Great Awakening, cultural developments, old colonial system, Anglo-French rivalry, nature of colonial society, problems of maturing political units.

300C Revolutionary Era, 1763–1789 (4)

B. Steiner. Causes of American Revolution and struggle for independence. Confederation, movement for new government, framing of Constitution.

301J Historical Research and Writing (4) (1J)

Prereq: jr, major or perm. D. Baxter, L. McGeoch. Deals with techniques and mechanics of historical research and writing. After introduction to use of primary and secondary sources and use of history reference material, students are guided through steps of research and writing: compiling bibliography, analysis of sources, organization of evidence, and style and composition of written paper.

302 American Indians (4)

Prereq: soph. K. Jellison. Treats Indian society before white contact; Spanish, French, and English impact; Indian removal; Indian wars; problems of cultural contact; preservation versus assimilation; Indian society today.

303 United States in World War II (4)

Prereq: soph. M. Fletcher. Military and diplomatic role of U.S. in WWII; political, economic, and social impact of war on that nation.

305 The United States and the Vietnam War (4)

Prereq: soph. Examination of American experience in Vietnam, both in terms of military and diplomatic history of war itself, and its impact on American society.

306 American Environmental History (4)

Prereq: 211, 212, or 213. A survey of the evolution—from 1565 to the present—of American attitudes toward and interactions with the natural world, including such topics as romanticism, the “code of the sportsman,” conservation, the “land ethic,” and “deep ecology.”

307 Famous Trials in American History (4)

This course uses the medium of famous trials to explore the relationship between law and society in American history from the 17th to the 20th centuries. Some of the cases to be studied are landmarks in the history of law, while others provide social and cultural insights into a particular period of American history. Along the way, the class will consider the role of governmental entities, the legal profession, the judiciary, the press, and the public in famous trials.

308A Pre-Civil War America, 1815–1850 (4)

Prereq: soph. P. Field. New definitions of democracy, westward expansion, early industrialization and class formation, moral reform movements, slavery and sectionalism, Mexican War, conflict of Jacksonian Democrats and Whigs.

308B The Civil War and Reconstruction (4)

Prereq: soph. P. Field. Forces making for increased sectionalism in 1850s; rise of new parties; military engagements; society and institutions in North and Confederacy during wartime; attempts to restructure Southern society after war and why they failed.

308C Foundations of Modern America: The Gilded Age, 1877–1901 (4)

Prereq: soph. P. Field. Labor unrest, nativism and anti-semitism, imperialism, government corruption, Social Darwinism, urban growth, Victorian morality, and Indian wars examined as outgrowths of efforts of American people to adapt to modernization and industrialization in late 19th century.

309A American Constitutional History, Part 1: Origins to Reconstruction (4)

Prereq: soph. Traces the history of American constitutionalism from its English roots through the aftermath of the Civil War. While the purview of the course is not restricted to the federal constitution, that document will form its chief focus. Ideas, institutions, and individuals responsible for the construction of America's unique constitutional heritage will be studied in considerable detail.

309B American Constitutional History, Part 2: Gilded Age to Present

Prereq: soph. Studies the history of American Constitutionalism from the last half of the 19th century to the last half of the 20th. Course will concentrate on the Federal Constitution and its role in shaping the public and private lives of Americans. Particular attention will be paid to the ideas, institutions, and individuals responsible for making the Constitution a battleground rife with intellectual, social, and cultural significance.

310A 20th-Century America, 1900–1928 (4)

Prereq: soph. A. Hamby, C. Pach. Emphasis on political and cultural history. Major topics include early 20th-century progressivism as an intellectual movement and its manifestations in state and local politics; presidencies of Theodore Roosevelt and Woodrow Wilson; impact of World War I; ambivalent character of the 1920s in American culture and politics; origins and effects of the affluent society.

310B 20th-Century America, 1928–1945 (4)

Prereq: soph. A. Hamby, C. Pach. Emphasis on politics, culture, and foreign policy. Major topics include origins and nature of the Great Depression; Franklin D. Roosevelt and the emergence of the modern presidency; political and intellectual character of the New Deal; origins and impact of American involvement in World War II; wartime military history, diplomacy, and politics.

310C 20th-Century America, 1945–Present (4)

Prereq: soph. A. Hamby. Emphasis on politics, culture, and foreign policy. Major topics include origins and nature of the Cold War; impact of foreign involvements on American politics; political leadership in the media age; radicalism and social change in the '60s and '70s; the rise of cultural politics and its effect on economic-based political coalitions; resurgence of conservatism in the '70s and '80s.

313 Jews in American History (4)

Prereq: soph. M. Fletcher. Examines political, economic, and religious interaction between Jews and American society. Includes Sephardic and Ashkenazic immigrants, growth of Reform and Conservative Judaism, Zionism, and modern problems of American Jews. From 1654 to present.

314A Social and Cultural History of the United States, 1607–1820 (4)

Prereq: soph. Role of minorities, class structure, and religion in forming American society; development of American painting, architecture, music, literature, education, and science as expressions of Puritanism, enlightenment, and nationalism.

314B Social and Cultural History of the United States, 1820–1890 (4)

Prereq: soph. See 314A for general description. Discusses romanticism, Social Darwinism, and pragmatism.

314C Social and Cultural History of the United States, 1890 to Date (4)

Prereq: soph. See 314A for general description. Discusses pragmatism and existentialism.

314D American Social Thought to 1815 (4)

Prereq: soph. C. Alexander. Major aspects of intellectual history of American colonies and U.S. to 1815, organized around two major themes: Puritanism, and secularization of American thought in 18th century.

314E American Social Thought, 1815–1915 (4)

Prereq: soph. C. Alexander. Major aspects of intellectual history of U.S. 1815–1915, stressing rise of romantic nationalism; triumph of democratic attitude; slavery controversy; impact of Civil War and Darwinian evolution.

314F American Social Thought Since 1915 (4)

Prereq: soph. C. Alexander. Major aspects of intellectual history of U.S. since 1915, with principal attention to continuing impact of evolutionary naturalism, especially in development of pragmatism; trends in liberal and conservative political ideologies; rise of pessimistic theology and its ramifications; modernism in arts; New Radicalism and Counter Culture.

315A History of African Americans to 1865 (4) (2S)

Prereq: soph. M. Fletcher. Beginning with introduction of slavery in 1619, course deals with black person's role in America through Civil War. Concerns slavery, abolition, and many attempts by black people to improve their position.

315B History of African Americans Since 1865 (4) (25)

Prereq: soph. *M. Fletcher*. Concerns Emancipation and its continuing effects on black person in America. Life in South, migration to North, and conservative and radical attempts by black community to deal with these problems.

316A History of United States Foreign Relations to 1914 (4)

Prereq: soph. *J. Gaddis, C. Pach*. U.S. foreign relations from war for independence to WWI, stressing development of traditional policies— isolationism, neutrality, Monroe Doctrine— and emergence of U.S. as world power.

316B History of United States Foreign Relations, 1914–1945 (4)

Prereq: soph. *J. Gaddis, C. Pach*. American foreign relations in two world wars and interwar period, emphasizing shifting perceptions of vital interests involved in transition from intervention to nonentanglement to intervention again and emergence as superpower.

316C History of United States Foreign Relations, 1945 to Present (4)

Prereq: soph. *J. Gaddis, C. Pach*. American foreign relations in Cold War and after, emphasizing confrontation between U.S. and Communist world, emergence of detente, and background of current foreign policy issues.

317A Ohio History to 1851 (4)

Prereq: soph. *B. Steiner*. Ohio to 1851: prehistoric Ohio, early exploration, settlement, government; statehood and economic development; political parties, antislavery movement, constitutional change.

317B Ohio History Since 1851 (4)

Prereq: soph. Ohio since 1851: pre-Civil War politics, Civil War. Economic and political transition during post-Civil War. 20th-century problems. Biographical sketches.

318 American Westward Movement (4)

Prereq: soph. American West; Appalachian West, Ohio frontier, Far West. Explorers, fur traders and trappers, miners, cattlemen, stage lines and railroads, farmers. Conservation.

319 Sports in American History (4)

Prereq: soph. *C. Alexander*. Survey of evolution of organized sports in U.S., focusing on major spectator sports. Emphasis on personalities and particular events rather than sociological and psychological theorizing.

319B American Baseball to 1930 (4)

Prereq: soph; no credit if 319A. American baseball—as sport, entertainment, business, and cultural institution—from origins in children's games and spread as adult activity in mid-19th century to emergence as full-blown professional sport after Civil War, formation of present league structures, Black Sox scandal of 1919–20, reconstitution of baseball's governance, and Babe Ruth-dominated “golden age” of 1920s. Includes player-owner conflicts, foremost players, managers, and teams; separate development of black baseball.

319C American Baseball Since 1930 (4)

Prereq: soph; no credit if 319A. American baseball—as sport, entertainment, business, and cultural institution—from Great Depression of 1930 through World War II; postwar boom, slump, and franchise migrations; major league expansion in 1960s; player-owner conflicts; and good and bad times in 1980s and 90s. Includes continuing evolution of game; foremost players, managers, and teams; Negro leagues and their demise; and All-American Girls Professional Baseball League (1943–54).

320A Women in American History Before 1877 (4)

Prereq: soph. American women's history from the colonial era through Reconstruction. Topics include the traditional life of Native American women, witchcraft in colonial New England, women in the American Revolution, African American women in slavery, early American childbirth customs, the early women's rights crusade, women on the trans-Mississippi frontier, and women in the Civil War.

320B Women in American History Since 1877 (4)

Prereq: soph. American women's history since Reconstruction. Topics include the experiences of immigrant women in the U.S., prostitution in the Gilded Age, the Progressive Era birth-control movement, achievement of the right to vote, women in the two world wars, women in the civil rights movement, the new feminist movement, the backlash against feminism, *Roe v. Wade* and the abortion debate.

321A History of the Military in America: 1600 to 1898 (4)

Prereq: soph. *M. Fletcher*. Military institutions in American history; role of technology in warfare; innovations and reforms in military; war and its conduct; military and civilian society in war and peace.

321B History of the Military in America: 1898 to Present (4)

Prereq: soph. *M. Fletcher*. Continuation of 321A. See 321A for description.

322 1960s in U.S.: Decade of Controversy (4)

Prereq: jr. Allows students to go beyond the popular stereotypes of the 1960s to understand the decade as a period of social, cultural and political confrontation that laid the groundwork for life in the present-day United States. Primary focus on social protest movements of the era: the Civil Rights movement, the student movement, the antiwar movement, the counterculture, and the women's movement.

323A Latin American History: The Colonial Era (4) (2C)

Prereq: soph. *M. Grow*. Examines historical origins of Latin American society. Themes include internal nature of Iberian and pre-Columbian Indian societies, circa 1492; conquest and subordination of Amerindian civilizations by Spain and Portugal; distribution of power, land, and labor in post-conquest Latin America; order and instability in colonial society; and region's position in international economy.

323B Latin American History: The 19th Century (4) (2C)

Prereq: soph. *M. Grow*. Examines 19th-century origins of modern Latin American underdevelopment, focusing on causes and consequences of Revolutions of Independence; dynamics of dictatorship and democracy in post-independence Latin American political culture; and decision-making process by which Latin America's 19th-century leaders integrated their national economies into international economic system as specialized exporters of raw materials.

323C Latin American History: The 20th Century (4) (2C)

Prereq: soph. *M. Grow*. Survey of modern Latin American history focusing on causes and consequences of structural instability in Latin America since 1900. Special emphasis is placed on collapse of region's traditional liberal/export model of national development in 1930s; competing political/ideological responses to structural crisis in region (social revolution, authoritarianism, democratic change); and ongoing search for viable formulas of economic development.

325 History of U.S.–Latin American Relations (4)

Prereq: soph. *M. Grow*. Survey of inter-American relations in the 19th and 20th centuries, focusing on evolving, and often conflicting, definitions of national interest which have shaped U.S. and Latin American policy orientations toward one another.

328 The World of Aristophanes (3)

Prereq: soph. *D. Richter*. Political, social, and cultural life of Athens in so-called Golden Age of ancient Greece, 5th century B.C. Special attention to Aristophanes' comedies as mirror of this period.

329A Ancient Egypt and Mesopotamia (4)

Prereq: soph. *D. Richter*. Prehistoric eras; origins of Mediterranean civilizations; problems of ancient chronology; civilizations of Sumerians, Babylonians, Egyptians, Assyrians, Biblical Hebrews, and Persians. Stresses archaeological and literary sources, comparative social and religious concepts, acculturation, contributions to Western civilization.

329B Ancient Greece (4)

Prereq: soph. *D. Richter*. Aegean prehistory, Minoan civilization, Mycenaean Greeks, Dorian invasions, Greek Renaissance, growth of polis, Athenian society and culture. Persian and Peloponnesian Wars, political history of Greece to Alexander. Stresses archaeological sources, mythology, and drama. Hellenic contributions to Western civilization.

329C Ancient Rome (4)

Prereq: soph. *D. Richter*. Early peoples of Italy, Etruscans, constitutional development of Republic, growth of empire, civil wars, history of principate to Constantine. Stresses archaeological sources, Latin literature, Roman life and institutions, Roman contributions to Western civilization.

330 History Through Film (4)

Prereq: soph. Examination of selected topics in U.S., European, or Third World history through films and readings accompanied by lectures and discussion.

331 The Ancient Greek Games: The Panhellenic Festivals (4)

Prereq: soph. *W. P. Kaldis*. Examines panorama of Greek athletic activity over period of approximately 3,000 years beginning with Minoan or Cretan civilization, ca. 3000 B.C., and terminating with decline of polis, or Greek city-state, ca. 146 B.C. Explains how Panhellenic festivals helped to unite various currents of Greek civilization.

332 History of Women in the Middle East (4)

Prereq: jr. Main themes, divided chronologically and thematically, include the history of veiling, polygamy, divorce, and laws of personal status during the early periods of Islam; a reexamination of “harem politics” and the role of women in the Ottoman empire; the effects of Westernization and modernization in the 19th-century societies; and recent trends such as the enforcement of the veil in the Islamic Republic of Iran and Egyptian fundamentalist movements; section on women poets and novelists.

333 Oil, Energy, and International Diplomacy (4)

Prereq: soph. *G. Doozee*. Energy crisis in historical perspective. Focus on oil industry during past century with particular attention to Middle East and North Africa; economic, environmental, geological, political, and technological elements of current situation.

334 The Arab-Israeli Dispute (4)

Prereq: soph. *G. Doozee*. Analysis of underlying causes of Arab-Israeli confrontation from 1890s to present, including origins of Arab nationalism and Zionism, evolution of British Mandate in Palestine, Great Power involvement in Middle East, and recent developments in conflict between Israel and Arabs.

335A Survey of Middle East History to 1800 (4) (2C)

Prereq: soph. G. Doxsee. Islamic history and civilization from rise of Islam to end of 18th century. Includes discussion of role of prophet Muhammad, doctrines and institutional system of Islam, medieval Islamic caliphates and their cultural achievements, and contributions of Persians and Turks to Islamic civilization.

335C Legacy of Genghis Khan (4)

Prereq: jr. An examination of Genghis Khan's life and legacy, emphasizing historical problems such as the life of the Khan, Mongol military tactics, economic policies, the interaction between nomadic and settled peoples, premodern state formation, and Mongol-influenced artistic and literary achievements. Particular attention given to Genghis Khan's legacy in the Middle East and Islamic world, including conquests of the warlord, Tamerlane, and the rise of the three "Gunpowder Empires."

335B Survey of Middle East History Since 1800 (4) (2C)

Prereq: soph. G. Doxsee. History of Middle East since era of French Revolution. Transformation of Ottoman and Persian Empires into 20th-century Middle East states; impact of nationalism, secularism and industrialism on region; and position of Middle East in contemporary world affairs.

336A North Africa in Modern Times (4)

Prereq: soph. Maghrib: its geography, ethnic composition, and history since antiquity; French conquest of Algeria, Tunisia, and Morocco; administrative systems; economic development; French-Muslim relations.

336B North Africa Since 1914 (4)

Prereq: soph. Rise of nationalism; struggle for political independence; political, economic, and social problems in independent North Africa; North Africa in world affairs.

338 History of West Africa (4)

Prereq: soph. A. Booth. History of West Africa from early times to present; peopling of sudanic and forest regions; development of trade; Islam and rise of sudanic empires; slave trade and forest states; colonial era; independence movements; problems of nationalism.

338A History of East Africa (4)

Prereq: soph. History of East Africa from early times to present, with particular emphasis on period since 1750. Although neighboring countries also studied, greatest attention paid to region that comprises present-day Kenya, Uganda, and Tanzania.

341A Early Africa (4) (2C)

Prereq: soph. Africa in ancient world; spread of agriculture and iron working; rise of Islam; migrations of peoples; development of states; arrival of Europeans; beginning of slave trade.

341B Traditional Africa (4) (2C)

Prereq: soph. Slave trade; religious revolutions in western Sudan; development of African states; commercial revolution of 19th century; birth of plural society in South Africa; European partition of Africa.

341C Modern Africa 1890–Present (4) (2C)

Prereq: soph. Establishment of European rule in Africa; colonial period; rise of nationalism; decolonization and independence; problems of modern Africa.

342A South Africa to 1899 (4)

Prereq: soph. A. Booth. Establishment and transformation of African societies (Bantu migrations); coming of Europeans; evolution of Cape society (black, white, colored); conflicting nationalisms; Great Trek; rise of Zulu empire and mfecane; mineral revolution and subjection of African chiefdoms; British imperialism and coming of South African War.

342B South Africa Since 1899 (4)

Prereq: soph. A. Booth. South African (Boer) War and reconstruction; formation of Union; global war and racial/regional/class conflicts over land, labor, and politics; rise of Afrikaner nationalism and triumph of apartheid; rise and radicalization of African nationalism; collision of nationalisms and expansion of conflict in 1970s; South Africa and modern world.

343 Revolutions in Southern Africa (4)

Prereq: 131 or 246. A. Booth. Historical background and developments up to present of revolutions in Mozambique, Angola, Zimbabwe (Rhodesia), Namibia (South West Africa), and Azania (South Africa). 2 lec, 1 disc, and 1 film per wk.

344A History of the Malay World (4)

Prereq: soph. W. Frederick. Comparative view of Southeast Asian archipelago, emphasizing Indonesian civilization after 1750. Penetration of West, struggle with Imperialism and modernization, and present dilemmas. Indigenous views focus of attention.

344B History of Burma and Thailand (4)

Prereq: soph. W. Frederick. Comparative study of neighboring Buddhist states, emphasizing themes of change and continuity since mid-18th century. Special attention given to divergent responses to colonialism and Western-style development, and similarities in political and social forms.

344C History of Vietnam (4)

Prereq: soph. W. Frederick. Modern Vietnamese civilization since 15th century, emphasizing political and social change after 1800. Special attention given to Vietnamese struggle with outside powers, including China, France, U.S., and Soviet Union.

345A Southeast Asia to c. 1750: The Creative Synthesis (4) (2C)

Prereq: soph. W. Frederick. Highlights of pre- and proto-history and development of classical states. Emphasis on cultural synthesis (Hindu, Buddhist, Muslim, and animist influences) and theme of change and continuity in both Great and Little traditions of region.

345B Southeast Asia, c. 1750 to 1942: Change and Conflict (4) (2C)

Prereq: soph. W. Frederick. Indigenous change and widening effects of Western penetration, with emphasis on social and cultural developments. Nature of colonialism in region, and response of colonized seen in light of both traditional and modern influences.

345C Southeast Asia, 1942 to the Present: The Search for Stability (4) (2C)

Prereq: soph. W. Frederick. Japanese occupation and its relationship to great national revolutions of 1940s. Social and cultural context of nationalism and revolt, search for new political forms, and struggle against disunity and poverty.

346A Traditional China (4) (2C)

Prereq: soph. D. Jordan. Follows developments in the Chinese civilization from the Shang bronze age, through primary philosophies, and up to final refinements of its massive imperial government and traditional society in the 1800s.

346B Modern China (4) (2C)

Prereq: soph. D. Jordan. Weakness of empire in 1800s confronted by dynamic Western economic and political imperialism; response to pressures of nationalism from without and from within; great flux in modern Chinese society and politics.

348A Traditional Japan (4)

Prereq: soph. D. Jordan. Traces major elements of Japanese culture and thought from their indigenous origins, through major Chinese influence, results of medieval civil warfare, and up to premodern workings of Japan's sophisticated commercial economy.

348B Modern Japan (4)

Prereq: soph. D. Jordan. Political weakness of Tokugawa system leading to opening of Japan to Western trade and restoration of emperor; favorable economic and political base which allowed Japan to enter successfully into competition with European nations; Japan's ultranationalist era and postwar reconstruction.

351 Medieval People (4)

Prereq: soph. C. Reeves. In-depth inquiries into lives and epochs of representative individuals of medieval Europe: Middle Ages through biography.

352 Medieval Civilization (4)

Prereq: soph. C. Reeves. Survey of cultural and intellectual history. Transmission of Christianity and classical culture to barbarians and their work of combining them into new civilization in early Middle Ages. Medieval civilization at its height: Church, schools and scholastic thought, and secular culture.

353A The Early Middle Ages (4)

Prereq: soph. C. Reeves. Foundation of Medieval synthesis, 300–1100; collapse of Roman world, establishment of successor states, spread of Christianity, formation and development of European culture.

353B The Later Middle Ages (4)

Prereq: soph. C. Reeves. Maturing of Medieval Europe and transition to early modern era, 1100–1450; developments in commerce, religious life and institutions, governments, politics, learning, and secular culture.

354 Early Christianity: East and West (4)

Prereq: soph. Investigates historical development and spread of Christianity from its origins to about A.D. 600. Content includes Greek and Hebraic backgrounds, early church fathers of East and West, ecumenical councils, early heresies, and development of church doctrine.

356A The Italian Renaissance (4)

Prereq: soph. P. Bebb. Major political, social, economic, and cultural currents of Italian city-states from 1300 to 1550. Focus on Dante, Petrarch, Boccaccio, Bruni, Machiavelli, Guicciardini, Michelangelo, Leonardo da Vinci, etc.

356B The Northern Renaissance (4)

Prereq: soph. P. Bebb. History of Renaissance outside Italy: politics, economics, sociology, and intellectual currents of Germany, France, Spain, Burgundy, and England from 1300 to 1600. Treated thematically, course focuses on Erasmus, More, Ximenes, Reuchlin, Hutten, Bude, etc.

356C The Reformation (4)

Prereq: soph. P. Bebb. Protestant, Catholic, and Counter-Reformations in Europe, showing their relationships to social, political, economic, and religious movements of 15th and 16th centuries. Roles of Luther, Zwingli, Calvin, Cranmer, Erasmus, Loyola, etc.; Protestant and Catholic churches and sects in western and eastern Europe.

357 Florentine People (4)

Prereq: soph. P. Bebb. Major figures in Florence from 1300 to 1600, from Dante to Galileo; concerns are with some originators of modern thought in areas of artistic theory, poetic form, Italian language, political ideas, scientific method, and historical composition.

358A Early Modern Europe, 1559–1648 (4)

Prereq: soph. D. Baxter. Europe from 1559 to 1648. Main political, economic, and social developments in Europe during Age of Spanish Preponderance; Philip II, wars of religion, Richelieu, Thirty Years' War, and ideological struggles.

358B Early Modern Europe, 1648–1715 (4)

Prereq: soph. D. Baxter. Europe from 1648 to 1715. Main political, economic, and social developments in Europe during Age of Louis XIV; French hegemony, rise of balance of power, absolutism.

358C Early Modern Europe, 1715–1774 (4)

Prereq: soph. *D. Baxter*. Europe from 1715–1774. Main political, economic, and social developments in Europe during 18th century: despotism, diplomatic revolution, competition for empire, Enlightenment.

360 Women in European History (4)

Prereq: soph. *R. Harvey*. The family, work, feminism, and women and politics are major topics of this introduction to women's history in France, England, Germany, and Russia from Renaissance to present, with emphasis on more recent developments. Lec, disc, films, slides, and guest speakers.

361 The French Revolution (4)

Prereq: soph. The French Revolution traditionally has been seen as the dividing line separating the Old Regime from modern times. This course examines the origins, course of events, and significance of the French revolutionary experience.

362A Europe, 1814–1871 (4)

Prereq: soph. *L. McGeoch*. Europe from Congress of Vienna through Franco-Prussian War, including growth of liberalism and nationalism, revolutions of 1830 and 1848, Industrial Revolution, unification of Italy and Germany, social and intellectual movements.

362B Europe, 1871–1914 (4)

Prereq: soph. *L. McGeoch*. Development of Austria-Hungary, France, Italy, Germany, Great Britain, and Russia, including imperialism, background of WWI, and social and intellectual movements.

364A Europe Between World Wars (4)

Prereq: soph. *R. Whealey*. Fascism, Communism, World Depression, and Twenty-Year Armistice between 1919 and 1939. Economic and cultural approach.

364B Contemporary Europe (4)

Prereq: soph. *R. Whealey*. Cold War, Communist bloc, European integration, decolonization, Gaullist regime, and problems of present-day Europe.

366A Modern France in the 19th Century (4)

Prereq: soph. *J. Chastain*. Rise and fall of Napoleon; his impact on France and Europe; monarchist interlude; revolution of 1848 and election of Louis Napoleon; Second Empire, liberal and authoritarian; wars and transformation of Europe; fall of Napoleon and Paris Commune; Third Republic.

366B Modern France in the 20th Century (4)

Prereq: soph. *J. Chastain*. Dynamic and stagnant aspects; nostalgia and rejection of 20th century; impact of 20th century; democracy in France; European and colonial wars; communist movement from Popular Front to Common Program; anti-communism in France; French in changing world; De Gaulle, his predecessors, and his successors.

368A Modern Germany in the 19th Century (4)

Prereq: soph. *J. Chastain*. Cosmopolitanism and movement to create national German state; rise of capitalism and decline of handicraft; liberation of German peasantry; revolution of 1848 and reaction; blood-and-iron chancellor; Germany's rise to European predominance; rise of worker movement; German society at turn of century.

368B Modern Germany in the 20th Century (4)

Prereq: soph. *J. Chastain*. Germany on eve of WWI; military fiasco and creation of Weimar Republic; Weimar, Berlin, Munich, and Dresden; attempt to forge democracy; Third Reich and transformation of German society; WWII and Final Solution; Communist Germany and Federal Germany; two societies and two states since 1945.

370 History of**Byzantine Empire, 324–1453 (4)**

Prereq: soph. *W. Kaldis*. Decay of Roman World and emergence of Christian empire, 324–717; Medieval Roman Empire, 717–1056; weakening of central administration and apparent revival under Comneni, 1025–1204; Byzantium and neighboring world, 1204–1453; church and state; education and learning; Byzantine art; social, political, and military developments.

371 Witchcraft 1400–1750

Prereq: jr; 101, 122, or 123. Witchcraft in Europe, the British Isles, and the American colonies 1400–1750: its historical origins; its social-intellectual bases; the roles of gender, the law, church and state, and popular and elite cultures; the great witch hunts and trials; and witchcraft's decline and disappearance.

372A Balkans in Early Modern Period, 1453–1804 (4)

Prereq: soph. *W. Kaldis*. Ethnographic structure of Balkan peoples under rule of Ottoman Empire. Ottoman institutions and society; political, social, economic, religious, and cultural developments in Balkans in 15th, 16th, 17th, and 18th centuries.

372B Balkans in 19th Century, 1804–1878 (4)

Prereq: soph. *W. Kaldis*. Evolution of modern Balkan nationalism and rise of Balkan states. Ottoman dissolution and Balkan revolutionary nationalism: political, social, economic, religious, and intellectual developments; domestic Balkan policy and foreign intervention.

372C Balkans in 20th Century, 1878 to Present (4)

Prereq: soph. *W. Kaldis*. Historical, cultural, and ethnic background of Balkan peoples. Social, economic, political, and intellectual developments in Balkans and East Europe; communication of southeast European states.

374A Balance of Power: Napoleon to the Kaiser (4)

Prereq: soph. *L. McGeoch*. Diplomatic history from Congress of Vienna to WWI, including age of Metternich, Italian and German unification, new imperialism, and prewar alliances and alignments.

374B History of International Diplomacy, 1914–1939 (4)

Prereq: soph. *R. Whealey*. International problems of peace and war, international organization and alliances. Theme: origins of WWII.

374C History of International Diplomacy, 1939 to Present (4)

Prereq: soph. *R. Whealey*. International problems of peace and war on worldwide scale since 1939, international organization and alliances. Theme: global balance of power.

375 World War I (4)

Prereq: soph. *D. Richter*. Covers the origins of the war, both diplomatic and strategic, as well as the peacemaking afterward, but the central focus will be the war itself: the major offensives, Allied and German strategies and tactics, trench warfare of the Western Front, chemical warfare, the war in the air and on the seas, the home front, the use of the machine gun and the tank.

376 Biography: Leaders in 19th Century Europe (4)

Prereq: soph. *L. McGeoch*. Lives of great and near great as they influenced history.

378 Espionage and History (4)

A. Booth. Historical perspective on modern secret intelligence operations, including espionage, propaganda, disinformation, cryptography, and counterintelligence. Examination of role of secret intelligence in foreign policy and national public policy, especially in times of war and crisis. Attention paid to intelligence and national security requirements of societies valuing openness and human freedom. Course stresses specific historical examples.

381 History of the Family (4)

Prereq: soph. *D. Baxter*. Chronological examination of the history of the Western family from medieval to modern times in Europe and America. Focuses on changes in family life through time. Particular attention devoted to role of women in their relationship to men and children, for until the 20th century the characteristic area of women's activity was the family.

382A History of Russia (4)

Prereq: soph. *S. Miner*. Russian origins, Greek and Mongol influences, expansion of Muscovy, Ivan the Terrible, Peter the Great, Catherine the Great, Russia as great power, and shapes of its 19th-century society.

382B Russia: Road to Revolution 1825–1917 (4)

Prereq: soph. From tsarist Russia to communist revolution. Background for revolution: origins of Russian socialism, rapid social and economic change, 1905 Revolution, war and the collapse of the Romanov dynasty in 1917.

382C Soviet Union (4)

Prereq: soph. *S. Miner*. Soviet Union since the 1917 Revolution. Stalinism, WWII and expansion, Krushchev, Brezhnev. Emphasis on internal affairs.

382D The USSR in World War II (4)

History of the Soviet Union during WWII. Topics include wartime diplomacy, espionage, social and political history of the USSR during the war, the creation of the communist states in Eastern Europe after the war, and the origins of the cold war.

389 Later Medieval England, 1307–1485 (4)

Prereq: soph. *C. Reeves*. Age of Chaucer and Wars of the Roses. Investigation of political, social, intellectual, ecclesiastical, and economic aspects of period of ferment and rapid change.

390A Tudor England (4)

Prereq: soph. *R. Harvey*. England in 16th century: Tudor absolutism, English Reformation, and major cultural and economic developments of Shakespeare's England.

390B Stuart England (4)

Prereq: soph. *R. Harvey*. England in 17th century: constitutional crisis of Stuart period, republican experiment under Cromwell, and major cultural and economic developments.

391A English History to 1688 (4)

Prereq: soph. *C. Reeves*. For English, political science, and prelaw majors and general students of history. Survey of institutional aspects of medieval England and social, political, and constitutional developments in Tudor and Stuart periods.

391B English History Since 1688 (4)

Prereq: soph. *R. Rauschenberg*. For English, political science, and prelaw majors and general students of history. Emphasizes cultural and economic developments, growth of British Empire, constitutional and social reforms, and impact of WWI and WWII.

392A Georgian England (4)

Prereq: soph. *R. Rauschenberg*. Survey of political, social, intellectual, cultural, and economic developments of England in years prior to and during American and French revolutions.

392B Victorian England (4)

Prereq: soph. *R. Rauschenberg*, *D. Richter*. Survey of England's history in 19th century, including examination of major political, cultural, and economic trends.

392C 20th-Century England (4)

Prereq: soph. *R. Rauschenberg*. Survey of English history in 20th century concentrating on political, cultural, and economic developments.

394A The Medieval English Constitution (4)

Prereq: soph. C. Reeves. English government from Anglo-Saxon times to end of Middle Ages. Growth of machinery of monarchy, central administration, courts and common law. Rise of Parliament.

394B The Modern English Constitution (4)

Prereq: soph. R. Harvey. Emergence of modern English constitution during 16th and 17th centuries: creation and growth of Tudor Constitution; significance of English Reformation for constitution; Tudor Parliament; "Century of Revolution" (1603-1689) and crisis of Constitution; problems of sovereignty and obligation; constitution today.

395 History of Canada (4)

Prereq: soph. J. Chastain, R. Rauschenberg. Introduction to Canada; study of its exploration and development under France and England, and its emergence as important modern nation.

396J Writing on Historical Themes (4) (1J)

Prereq: jr. Students study and write on selected historical themes. Equal emphasis on historical materials and writing. Fulfills jr-level English composition requirement.

397T Honors Tutorial Study, European History (1-5)

Prereq: HTC. (fall) Covers European history from Renaissance to present.

398T Honors Tutorial Study, European History (1-5)

Prereq: HTC. (winter) Independent study. European history.

399T Honors Tutorial Study, European History (1-5)

Prereq: HTC. (spring) Independent study. European history.

401A Studies in Colonial American History (4)

Prereq: 24 hrs HIST. B. Steiner. Literature and source materials of colonial American history. Readings and reports.

401B Studies of the Era of the American Revolution (4)

Prereq: 24 hrs HIST. Literature and source materials of American Revolution. Readings and reports.

405 Studies in the Foundation of the American Republic, 1783-1819 (4)

Prereq: 24 hrs HIST. literature and source materials of early national period of American history. Readings and reports.

407 Studies of the Era of Sectional Controversy: 1819-1850 (4)

Prereq: 24 hrs HIST. Literature and source materials of era of sectional controversy, 1819-1850. Readings and reports.

409 Studies in the Era of the Foundations of Modern America, 1850-1901 (4)

Prereq: 24 hrs HIST. Literature and source materials for period 1850-1901 in U.S. history. Readings and reports.

411 Studies in the History of the United States in Recent Times (4)

Prereq: 24 hrs HIST. C. Alexander, A. Hamby. Literature and source materials of recent U.S. history. Readings and reports.

415 Studies in the Social, Cultural, and Intellectual History of the United States (4)

Prereq: 24 hrs HIST. C. Alexander. Selected topics.

417 Studies in the History of American Foreign Relations (4)

Prereq: 24 hrs HIST. J. Gaddis, C. Pach. Literature and source materials of American foreign relations. Readings and reports.

421 Studies in Regional History (4)

Prereq: 24 hrs HIST. Literature and source materials of U.S. regional history. Readings and reports.

424 Studies in the History of U.S.-Latin American Relations (4)

Prereq: 32S. M. Grow. Readings and research papers on major issues in 20th-century U.S.-Latin American relations.

426 Dictatorship in Latin American History (4)

Prereq: 323C. M. Grow. Focuses on predominant type of political/governmental system in Latin America: authoritarian dictatorship. Examines major examples of 20th-century ideological authoritarianism in Latin America ranging from populist authoritarianism of Juan Peron in Argentina to bureaucratic authoritarian regimes recently in power in Southern Cone and Brazil. Attention devoted to competing schools of interpretation which attempt to explain recurring phenomenon of nondemocratic forms of government in Latin America.

427 Studies in Recent Latin American History (4)

M. Grow. Literature and source materials of recent Latin American history. Readings and reports.

429 Studies in the History of Ancient Greece (4, max 8)

Prereq: 24 hrs HIST. D. Richter. Literature and source material of ancient Greek civilization. Readings and research paper. Themes vary from quarter to quarter. May be repeated for credit.

435 Studies in Middle East History (4)

Prereq: 24 hrs HIST. G. Doxsee. Selected topics on Middle East since 1914. Readings and reports.

441 Studies in African History (4)

Prereq: 24 hrs HIST. A. Booth, G. Doxsee, S. Miers. Literature and source materials of African history. Readings and reports.

445 Studies in the History of Southeast Asia (4)

Prereq: 24 hrs HIST. W. Frederick. Literature of Southeast Asian history and culture generally, with particular emphasis on selected developments in 19th and 20th centuries. Readings and reports.

449 Studies in the History of East Asia in Modern Times (4)

Prereq: 24 hrs HIST. D. Jordan. Historical literature relating to process of modernization of China and Japan from 1860s to 1960s. Readings and reports.

463 Studies in 19th-Century Europe (4)

Prereq: 24 hrs HIST. L. McGeoch. Literature and source material of 19th-century Europe. Readings and reports.

467 Studies in Modern France (4)

Prereq: 24 hrs HIST. J. Chastain. Literature and source material of modern France. Readings and reports.

483 Studies in Russian and Soviet History (4)

Prereq: 24 hrs HIST. S. Miner. Literature and source material of Russian and Soviet history. Readings and reports.

491 Studies in Early Modern English History (4)

Prereq: 24 hrs HIST. R. Harvey. Studies in early modern English history from multidisciplinary perspectives.

493 Studies in British History Since 1714 (4)

Prereq: 24 hrs HIST. R. Rauschenberg. Literature and source material of British history since 1714. Readings and reports.

495 History Internship (5)

Prereq: jr, perm. Designed to enhance skills for history majors through history-related work assignments in public and private agencies.

496 Quantitative Methods in History (4)

P. Field. Introduction to descriptive and inductive statistical techniques used in historical research and analysis of current literature employing such techniques. Instruction in use of computer.

497T Advanced Honors Tutorial Study (1-5)

Prereq: HTC. (fall) Independent study, advanced level.

498 Problems in History (1-5, max 9)

Prereq: 24 hrs HIST. Intensive individual work either in research or individual systematic reading along lines of student's special interest under supervision of staff member.

498T Advanced Honors Tutorial Study (1-5)

Prereq: HTC. (winter) Independent study, advanced level.

499 Honors Studies of Selected Historical Topics (1-5, max 15)

Prereq: perm. Study, reading, research, and writing on selected topic; intended for students who plan to graduate with honors in history. Arrangements should be made during junior year.

499T Advanced Honors Tutorial Study (1-5)

Prereq: HTC. (spring) Independent study, advanced level.

Human and Consumer Sciences

Child and Family Studies (HCCF)

160 Introduction to Child Development (4) (2S)

Fundamental patterns of development and behavior during prenatal period through early childhood. 4 lec. No credit awarded if EDEL 200 or PSY 273 has been taken.

160A Observing and Recording Children's Behavior (3)

Prereq: 160 or concurrent. Documenting children's cognitive and academic learning and their social, emotional, and physical development by using a variety of observational strategies such as running records, anecdotal records, checklists, rating scales, time sampling, event sampling, and formal observational instruments. 3 lec.

170 Introduction to Early Childhood Education (3)

Overview of the profession of early childhood education and the role of the teacher. 3 lec.

260 Diversity in Early Childhood Education (3)

Prereq: C or better in 170. Focuses on increasing awareness, sensitivity, and understanding of the diverse cultural, ethnic, linguistic, religious, and family backgrounds of children in early childhood education. 3 lec.

260L Clinical: Diversity in Early Childhood Education (1)

Prereq: C or better in 260. Clinical experience in an early childhood setting that provides an opportunity to interact with children who share diverse (cultural, linguistic, ethnic, racial, socioeconomic, family forms, etc.) background experiences. 3 lab.

265 Infant and Toddler Development (3)

Prereq: 170. Provides in-depth information about the physical, social, emotional, cognitive and language development of children from birth to 3 years. Typical and atypical patterns will be covered as well as the environmental conditions that support optimal development. 3 lec.

270 Family Living (3)

(fall) Person-centered analysis of basic human relationship processes leading to successful modern American marriage and family experience. Special discussion and analysis of problems in beginning family stage. 3 lec.

299 Sophomore Practicum—Professional Assessment (3)

Prereq: soph, major. (fall) Provides professional experience for students who have declared majors in child development, family studies, or home economics education. Seminar sessions and performance assessment provide opportunity to assess professional competence at this level. 3 lec.

360 Human Sexuality (4)

Prereq: jr. Explores effect of human sexuality on aspects of one's ability to form relationships which are integrative, creative, and recreative. Emphasis on realization on dynamic potential in wholeness of life pattern and in relationships, in light of scientific research. 4 lec.

361 Guidance and Classroom Management in Early Childhood (3)

Prereq: C or better 160 or PSY 273 or EDEL 200. (fall, winter) Application of theories and principles of preschool guidance by directed observation of adult-child interactions and supervised participation in early childhood education programs. 3 lec.

361L Clinical: Guidance and Classroom Management in Early Childhood (1)

Prereq: C or better in 160; 361 concurrent. Observation and participation in the guidance and classroom management in approved early childhood settings. 3 lab.

363 Creative Experiences in Early Childhood (4)

Prereq: C or better 361. (winter, spring) Selection, preparation, presentation, and evaluation of activities and materials in art, music, language, psychosocial, and physical development for early childhood programs. 4 lec.

363L Clinical: Creative Experiences in Early Childhood (1)

Prereq: C or better in 361, 361L; 363 concurrent. Observation and presentation of creative experiences in approved early childhood settings. 3 lab.

364 Premath and Science with Young Children (4)

Prereq: C or better 361; 1 course BIOL or BIOS. (winter) Examples of early childhood programs, primary elements and issues that differentiate them. Selection, preparation, presentation, and evaluation of premath and science activities and materials. 3 lec, 3 lab.

365 Infant and Toddler Education (3)

Prereq: C or better 361, 361L. (fall, alt yrs) Knowledge of ways in which children learn from birth to 3 years; opportunity to structure environment to foster social, emotional, cognitive, and physical development of infant, as well as understanding of issues and trends in infant education. 3 lec.

365L Clinical: Infant and Toddler Education (3)

Prereq: C or better in 265, 361, 361L; 365 concurrent. Assigned responsibility for care and education of infants and toddlers in groups. 9 lab.

366 Practicum in Early Childhood Education (6)

Prereq: 363, 364, perm. Lab experience in assisting the planning, guiding, supervising, and evaluating preschool children's growth and behavior in all phases of early childhood education programs. Required for students in the associate's degree program.

371 Family Development (3)

Prereq: jr. Synthesis of essential concepts useful in comprehending families in light of developmental concept for family analysis through stages of family life cycle. 3 lec.

380 Death and Dying (4)

Prereq: jr. (spring) Examines why people fear death, how death affects family relationships, dynamics of guilt and bereavement, meanings of death, processes of dying, disposition of body, caring relationships. Synthesizes multiple dimensions of death and dying. 4 lec.

399 Junior Practicum—Professional Development (5)

Prereq: C or better 299, jr, major. (spring) Provides students with practical field-based experience in professional areas. 3 lec, 6 lab.

400 Senior Seminar (3)

Prereq: 299, perm. Provides opportunity for comprehensive assessment in relation to personal and professional growth prior to exiting programs as professionals in child development or family studies. 3 lec.

441 Evaluation in Child and Family Studies (3)

Prereq: sr. (arranged) Evaluation and assessment methods and techniques in relation to process and products in home economics programs and professions. 3 lec.

444 Adult Education in Human and Consumer Sciences (4)

Prereq: jr. (winter, alt even yrs) Organization procedures, curriculum materials, and methods of conducting adult education groups in home economics. 4 lec.

452 Home Management for the Disabled Homemaker (4)

Prereq: jr. Recognizes unique home management demands faced by persons with disabilities and their families and determines creative methods and identifies resources to meet those demands. 4 lec.

453 Functional Assessment in Independent Living (3)

Prereq: jr. (arranged) Explores functional assets and limitations of persons with disabilities in completing household tasks, identifies methods and materials used in assessment of functional limitation, and determines resources and strategies to increase ability of clients to perform household tasks. 3 lec.

455 Curriculum and Teaching Strategies in Early Childhood (4)

Prereq: All methods courses. Synthesis of early childhood curriculum content, teaching strategies, and decision-making processes in curriculum development and implementation. 4 lec.

455L Clinical: Curriculum and Teaching Strategies in Early Childhood (2)

Prereq: All methods courses. Supervised lesson planning and teaching in early childhood classrooms serving children age 3 to grade 3. 6 lab.

462A Pluralistic Life Styles (3)

Prereq: C or better 371. (fall) Analysis of emerging pluralistic marriage and family life patterns in American society. 3 lec.

462B Parenthood (3)

Prereq: C or better 371. (fall) Analysis of dynamics of parenthood. 3 lec.

462C Middle Childhood (3)

Prereq: C or better 371. (winter) Analysis of developmental tasks of middle childhood years as they reflect and influence family guidance and transmission of values. 3 lec.

462D The One-Parent Family (3)

Prereq: C or better 371. (winter) Analysis of dynamics of one-parent family in light of its needs, challenges, and distinctive characteristics. 3 lec.

462E Youth Identity Crisis (3)

Prereq: C or better 371. (spring) Analysis of identity crisis in terms of its psychosocial aspects of adolescence. 3 lec.

462F The Aged Family (3)

Prereq: C or better 371. (spring) Synthesis of multiple dimensions of aged family. 3 lec.

463 Administration in Early Childhood (3)

Prereq: C or better 363, 364. (spring) History, philosophy, and objectives of preschool education including current trends. Problems in organizing and administering preschools, play groups, and Head Start programs with emphasis on housing, staff, schedules, and financing. 3 lec.

465 Parent Education (3)

Prereq: C or better 361, 371. (fall) Philosophy, techniques, materials, and methods used in working with parents. Opportunities for observation and participation with parent groups, parent conferences, and home visitations. 3 lec.

467 Philosophy and Theories of Child Development (3)

Prereq: C or better 170, sr. (fall, alt yrs) Review of theories of child development with synthesis approach for students in early childhood education programs. 3 lec.

471 Family Life Education (4)

Prereq: C or better 371, jr. (winter, alt odd yrs) History, philosophy, and objectives of family life education, including current trends. Selected fundamental education problems explored. Examination of various dimensions of teacher's role and critical appraisal of student's professional competency to teach classes in family life education. 4 lec.

472 Special Studies in Child and Family Studies (2-5)

Prereq: perm. In-depth independent study in selected area.

474 Student Teaching in Early Childhood (6-12)

Prereq: perm. Lab experience in planning, guiding, supervising, and evaluating preschool children's growth and behavior in all phases of early childhood education programs.

499 Field Experience in Family Studies (12)

Prereq: 399, 400, perm. On-the-job training through cooperation with social, welfare, or community agencies, hospitals, early childhood programs.

Food and Nutrition (HCFN)**105 Introduction to Food Operations Management (1)**

Prereq: perm, acceptance as food service student manager trainee. Overview of basic management concepts as they relate to the successful operation of a food service. 1 lec.

110 Introduction to Hospitality (4)

Prereq: fr or soph only. (fall, winter) Overview of restaurants, institutional food service, hotels, and travel and tourism. Exploration of different career possibilities in the hospitality industry. 4 lec.

120 Meal Management (3)

Prereq: human & consumer science major (fall, spring) Principles of food preparation and nutrition emphasizing use of time, energy, and resources in management of meals. Government regulations controlling food supply. 2 lec, 3 lab.

128 Introduction to Nutrition (4) (2A)

Nutrients, their food sources and functions in body, application to planning adequate diet through life cycle. 4 lec.

222 Food Science and Principles (4)

Prereq: C or better in 120; CHEM 121 or 151. (winter) Scientific principles applied to selection, storage, and preparation of foods. 3 lec, 3 lab.

232 Infant and Child Nutrition (4)

Prereq: 128, HCCF 160 or PSY 273 or EDEL 200. (arranged) Dietary factors related to nutritional status in pregnancy, infancy, preschool, and school-age children. Contribution of nutrition education and school lunch program in school curriculum. 3 lec, 2 lab.

299 Sophomore Practicum—Professional Awareness (1)

Prereq: C or better 120, 128, INCO 101 or 103. (fall) Development of an awareness of the history, philosophy, goals, organization, and requirements of the dietetic profession. 1 lec.

330 Food Sanitation and Safety (2)

(winter) Applied food service sanitation procedures in the food handling functions of purchasing, storage, preparation, and service. Hazard Analysis Critical Control Points (HACCP) covered. Upon completion, students eligible for national and Ohio certification in Food Safety. 2 lec.

334 Quantity Food Production (4)

Prereq: C or better 128, 222. (fall) Food preparation principles applied to large quantity food production, menu planning, recipe standardization, food cost, and service in institutions. Experience in residence dining halls. 2 lec, 4 lab.

335 Food Service Purchasing (4)

Prereq: C or better 334. (winter) Managerial approach to the purchasing and selection of a wide variety of food, beverage, and nonfood items. Emphasis placed on purchasing the optimal amount at the optimal price. Upon completion, students eligible for national certification in Food Purchasing. 4 lec.

340 National Restaurant Show Study Tour (2)

Prereq: 334. Exposure to the latest trends, foods, and equipment in the hospitality industry. Students network with professionals while attending seminars at the National Restaurant Show in Chicago.

382 Intermediate Nutrition (4)

Prereq: C or better 128, CHEM 123 or 153. (spring) Focuses on application of basic principles and research findings relating to adequate nutrition throughout the life cycle. 4 lec.

399A Dietetics/Nutrition with Science Field Experience (5)

Prereq: C or better 299, 382, BIOS 345. (summer) Professional experience in hospitals, nursing care centers, community agencies providing nutrition care, government agencies charged with nutrition policy, or other direct nutrition providers under daily supervision of a Registered Dietitian (RD).

399B Food Service Field Experience (5)

Prereq: C or better 334. (summer) Professional experience in restaurants, hotels, or other hospitality establishments under the supervision of an experienced professional.

400A Dietetics Senior Seminar (1)

Prereq: 399A. Provides an opportunity for majors in dietetics and nutrition with science to demonstrate personal and professional growth by investigating a topic and presenting it in class. Students lead discussions on topics that affect the profession and share experiences gained during field experience. 1 lec.

400B Food Service Seminar (1)

Prereq: 399B. Provides an opportunity for food service management students to demonstrate personal and professional growth by sharing work experiences in verbal and written form with staff and fellow students. 1 lec.

422 Experimental Foods (4)

Prereq: C or better in 222; CHEM 302. (spring) Factors which affect results of different methods used in food preparation. Research techniques using subjective and objective evaluation of products. 3 lec, 3 lab.

424 Nutrition Treatment in Outpatient Care (4)

Prereq: C or better 399A; 428 or concurrent. The nutrition counseling process and skills (including assessment, treatment, evaluation, and documentation) for ambulatory patients requiring dietary modification to prevent and/or treat overweight/obesity, hypertension, hyperlipidemia, diabetes mellitus, and cancer. 4 lec.

426 World View of Nutrition (3)

Prereq: C or better 128; SOC 101 or ANTH 101; jr or sr. (winter) Survey of world food situation with consideration of environmental, cultural, governmental, and economic factors that relate to food production and consumption. Evaluation of these patterns in meeting dietary needs. 3 lec.

427 Studies in Foods and Nutrition (2–4, max 8)

Prereq: 128, 222, jr. (arranged) Directed studies in some aspect of foods and/or nutrition; topics selected by students with approval of faculty member; frequent conferences.

428 Advanced Nutrition (4)

Prereq: C or better 382, BIOS 345, CHEM 302. (fall) Biological aspects of nutritional science building on concepts in biochemistry and human physiology. Examination of present knowledge of nutrients, their utilization at the cellular level, and recommendations for intake compatible with good health. 4 lec.

429 Community Nutrition (3)

Prereq: C or better 128, 382, jr. (spring) Assessment of community nutrition needs. Survey of agencies and programs providing services. Role of nutritionist. Methods and resources for nutrition education. Legislation. 3 lec.

430 Therapeutic Nutrition (4)

Prereq: C or better 428, BIOS 345, 463. (winter) Use of dietary modification in prevention and treatment of disease. Nutritional assessment. Problems in nutritional care. 4 lec.

431 Studies of Science of Nutrition (1)

Prereq: C or better 428; BIOS 345 or 342 and 343; BIOS 463. (arranged) Nutrition as related to physiological and metabolic processes. Individual research project. 2 lab.

437 Food Service Systems I (5)

Prereq: C or better 334; CS 120 or HS 309. (winter) Introduction to tools and functions of management in food service with emphasis on organization structure, catering, inventory control, staffing, work methods, human relations skills, sanitation, and safety. 4 lec, 3 lab.

438 Food Service Systems II (4)

Prereq: C or better 437; ACCT 201. (spring) Institutional equipment purchasing, kitchen layout design, facilities management, and cost control. 4 lec.

439 International Cuisine (4)

Prereq: C or better 334, 437. (spring) Principles of international cuisine, advanced food preparation, and research of areas of specific interest. 2 lec, 4 lab.

440 Beverage Management (4)

Prereq: C or better 437. (spring) Managerial approach to beverage management in hotels, restaurants, and catering operations. Emphasis on facility planning, merchandising, and managing a beverage operation. Upon completion, students eligible for national certification in Beverage Management. 4 lec.

498B Food Service Professional Development (2)

Prereq: C or better 399B, major. (fall) Professional experience for food service majors with opportunities for career assessment. Practice in interviewing and job-seeking skills. 2 lec.

499A Nutrition Counseling Practicum (3)

Prereq: C or better 399A, 424, 428. (winter, spring) Nutrition counseling practicum including assessment, treatment, and evaluation for follow-up in outpatient care.

499B Food Service Practicum (3)

Prereq: 498B or concurrent. (arranged) Food service experience at a food service establishment under the supervision of an experienced professional.

General Education (HCGE)**340 Teaching of Family and Consumer Sciences (4)**

Prereq: EDSE 250, 250L, 270, 270L. (alt. years) Family and consumer sciences programs at junior and senior high school level. Special emphasis on vocational education, curriculum development, evaluation procedures, and methods of teaching. 4 lec.

345J Writing in Human and Consumer Sciences (4) (1J)

Prereq: jr. (winter) Investigation and analysis of current issues and concerns in human and consumer sciences professions. Emphasis placed upon developing variety of writing formats in order to communicate effectively with selected audiences. 4 lec.

391 Equipment (2–4)

Prereq: 390. (arranged) Selection and use of household equipment including materials, construction, operation, and care.

395 Home Management (3)

Prereq: soph. (arranged) Decision making applied to use of family resources with purpose of creating family environment in which optimum human development will occur. 3 lec.

396 Home Management Laboratory (4)

Prereq: soph. (arranged) Principles of decision making and management in group living situation. Home management house experience provided. 8 lab.

450 Problems in Teaching**Home Economics (2–4, max 6)**

Prereq: perm. (arranged) Individual problems in teaching.

459 Human and Consumer Sciences**Seminar, Workshop and Short Course in International Service (2–4)**

Special seminar or workshop for international students or for family and consumer sciences majors who want to prepare for international service.

479A–K Workshop in Human and Consumer Sciences (1–6)

Special workshops on topics related to home economics.

479A Home Economics Education**479B Clothing and Textiles****479C Food and Nutrition****479D Child Development****479E Consumer Economics****479F Home Furnishings****479G Home Management****479H Household Equipment****479I School Lunch Management****479K Family Life Education****490A–D Independent Study (2–5, max 15)**

Prereq: perm. Independent study, advanced level, under direction of faculty member in area of specialization.

490A Family Studies and Community Service**490B Fashion and Retail Merchandising****490C Interior Design****490D Human Nutrition and Food Science**

491A Understanding Play (4)

Prereq: HCCF 160 or EDEL 200. Study of selected play theory for purpose of developing recreation therapy programs. (No credit if REC 360 is taken.) 3 lec, 2 lab.

491B–F Seminar or Short Course in Human and Consumer Sciences

Advanced studies of research and recent developments in any of the five areas of family and consumer sciences.

491B Foods and Nutrition**491C Home Economics Education****491D Housing and Management****491E Textiles and Clothing****491F Research****492 Household Equipment Techniques (3)**

Prereq: 391. (arranged) Critical analysis of home equipment relative to durability and effective use. 1 lec, 4 lab.

499B Field Work in Home Economics—Job Training (5–12)

Prereq: perm. (arranged) On-the-job training in area of specialization.

Interior Design (HCID)**180 Introduction to Residential Design (3)**

(fall, spring) Practical and aesthetic study of residential design, including design theory, materials and finishes, selection, and arrangement of furniture and accessories. 3 lec.

180A Introduction to Residential Design Studio (1)

Prereq: 180 or concurrent, IT 104 or concurrent; major. (fall, spring) Investigation and application of design theory and residential space planning. 2 lab.

181 Color Theory (4)

Prereq: IT 104 or concurrent or HCRM major. Focuses on the characteristics, relationships, and theories of color based on major color systems. The visual and psychological effects of color and light, various color phenomena, and the formal and expressive elements of color for interior environments are explored. Color is studied in terms of furnishings and finishes as related to space, form, and light. 2 lec, 4 lab.

200 Beginning Computer-Aided Design (2)

Prereq: soph, HCID or HCRM or Food Service Mgt major. (winter) Investigation and development of design using computer-aided design (CAD) software. Introduction to drawing, editing, viewing, and printing in AutoCAD. Emphasis given to application of these techniques to solve specific interior design/retail merchandising/food service types of design problems along with tutorial on interfacing between AutoCAD software used in these fields. 2 lec.

279 Rendering and Presentation Techniques (4)

Prereq: 180, IT 104. (fall) Emphasizes the rendering of texture, light, shadow, materials, and interior architectural details. Techniques include perspectives, elevations, isometrics, and sketching in various color and black-and-white media. Final presentation techniques, such as logo development, lettering styles, and point size, are stressed. 2 lec, 4 lab.

280 Interior Design Studio I (4)

Prereq: 279. (winter) Planning, designing, and specification of materials and furnishings for residential spaces. Lab experiences include executing plans, elevations, sample boards, cost estimates, rationales, and oral presentation. Fee charged. 1 lec, 6 lab.

281 Interior Design Studio II (4)

Prereq: 280. (spring) Investigation, design, and specification of materials and furnishings for retail interiors of a large scale size. Lab experiences include executing circulation plans, floor plans, elevations, perspectives, lighting, contract documents, rationales, and oral presentations. Fee charged. 2 lec, 4 lab.

288 Lighting Fundamentals (3)

Prereq: major. (winter) Fundamental concepts of illumination. Examination of vision, light, color, tasks, and quality of light. Terminology, symbols, concepts, electrical systems, basic equations, and lighting calculations. Exploration of light sources and controls. Study of physiological and psychological considerations. 3 lec.

299 Professional Practices (2)

Prereq: major. (fall) Study of field of interior design concentrating on career opportunities and professional organizations. 2 lec.

300 Computer-Aided Design, Professional Application (3)

Prereq: 200, major. (spring) Continuation of 200 with an emphasis on how CAD is used in interior design. Explores AutoCAD in greater detail to provide a finer understanding of CAD. Focus on advanced editing, drawing, viewing, and printing CAD commands. 3 lec.

340 Interior Design Computer-Aided Design (3)

(fall, winter) Investigation and development of design using computer-aided design (CAD) program for floor plans, furniture placement, 3-D views, and plotting using computers. 2 lec, 2 lab.

350 Principles, Materials, and Methods of Interior Construction (3)

Prereq: soph. (fall) Investigation of interior construction codes and building materials and their application. Field trips to actual construction sites when available. 3 lec.

350A Interior Construction Studio (2)

Prereq: IT 104. (fall) Design and development of construction; working drawings of an existing real building space, including plans, sections, details, schedules, and specifications. Lab experiences include measured drawings, and preparation of documents. Fee charged. 4 lab.

351 Principles, Materials, and Methods of Interior Construction II (3)

Prereq: 350. (winter) Investigation and application of interior finish materials. Examines fire performance and furniture and finish specifications. Guest speakers from manufacturers, as well as field trips. 3 lec.

352 Business Procedures and Contract Documents (3)

Prereq: 351. (spring) Investigation and application of business procedures, types of business, insurance, liabilities, contractual agreements, and the support materials needed to operate a professional design practice. Professional presentation skills explored. 3 lec.

384 Interior Design Programming and Environmental Studies (3)

Prereq: 180. (winter) Investigation of design programming, including the psychological concept of personal space, crowding, territoriality, and privacy. 3 lec.

385 Home Furnishings Workshop (4)

Prereq: 113, 180 or 6 hrs ART and perm. (arranged) Lab problems in advanced techniques in home furnishings, including upholstering, slip-covering, and refinishing furniture.

389 Lighting Design and Application (3)

Prereq: 288. (arranged) Application and design of interior illumination systems. Use of manufacturer product catalogs and data. Consideration of special lighting applications. Further study of light quality and color effects. Use of lighting formulas and calculations. 3 lec.

400 Senior Seminar—**Professional Evaluation (1–3)**

Coreq: 499 or concurrent. Provides opportunity for students to demonstrate personal growth by sharing experiences in verbal and written form with faculty and fellow students.

480 History of Furniture and Interior Design I (3)

Prereq: jr. Study of the history of interiors, furnishings, decorative arts, and architecture of the ancient world; the Middle Ages, Gothic and Renaissance; the French Periods and the Beidermeir Period. 3 lec.

481 History of Furniture and Interior Design II (3)

Prereq: jr. Study of the history of interiors, furnishings, decorative arts, and architecture of England (Tudor through Victorian) and America (Early American through Victorian). 3 lec.

482 History of Furniture and Interior Design III (3)

Prereq: jr. Study of the history of interiors, furnishings, decorative arts, and architecture of the twentieth century. 3 lec.

483 Advanced Interior Design Studio I (4)

Prereq: 281. (fall) Investigation, design, and specification of materials and furnishings for offices. Office design will range from single-occupancy office to large multipurpose office space, including concept of office landscaping. Lab experiences include executing plans, elevations, perspectives, cost estimates, rationales, and oral presentations. Fee charged. 1 lec, 6 lab.

484 Advanced Interior Design Studio II (4)

Prereq: 281. (winter) Investigation, design, and specification of materials and furnishings for hotels and restaurants. Lab experiences include executing plans, elevations, perspectives, cost estimates, rationales, and oral presentations. Fee charged. 2 lec, 6 lab.

485 Advanced Interior Design Studio III (4)

Prereq: 281, sr, major. (spring) Investigation, design, and specification of materials and furnishings for selected health care problem. Lab experiences include executing plans, elevations, perspectives, cost estimates, rationales, and oral presentations. Fee charged. 1 lec, 6 lab.

486 Advanced Interior Design Studio IV (4)

Prereq: 281, major. (spring) Investigation, design, and specification of materials and furnishings for historic preservation/restoration or adaptive reuse of historic structures. Lab experiences include executing plans, elevations, perspectives, cost estimates, rationales, and oral presentations. Fee charged. 1 lec, 6 lab.

499 Field Work—Interior Design (3–12)

Prereq: 280, 350A, 352. On-the-job training through cooperation with residential and contract firms for interior design majors.

Retail Merchandising (HCRM)**150 Design and Illustration Techniques (4)**

Design and illustration techniques in relation to stylized fashion figure. Variety of media introduced for visually communicating fashion. Students develop sketching style, incorporate pen and ink, pencil, watercolor, charcoal, pastel chalk, and wet and dry media in illustrations, and design apparel. Each student will develop a professional portfolio. 2 lec, 4 lab.

201 Introduction to Retailing (4)

(fall, spring) Introductory examination of retailing as major economic force in the country and as significant contributor for career opportunities. Practical analysis of retail operations and impact of socioeconomic factors. Focus on terminology, trends, retailers, and advances in retail technology. 4 lec.

213 Design Analysis: Theory and Principles (4)

Prereq: 117, soph, Tier I math. (arranged) Fundamental principles as applied to understanding use and fit of commercial pattern and apparel construction. Emphasis on scientific thought, creative expression, and construction problems. 2 lec, 4 lab.

250 The Consumer in American Society (4) (25)

Prereq: ECON 103 or soph. An analysis of basic components and operations of the economic system in the United States as they affect the consumer. Current consumer issues, influences, restrictions of consumer freedom of choice, major consumer expenditures, and resources which are available to consumers as they participate in decision making and consumption are discussed. 4 lec.

283 Apparel Production Process (4)

(on demand) Examination of ready-to-wear apparel production and manufacturing, related to design, sizing, fit and apparel components. 4 lec.

299 Professional Development (4)

Prereq: soph. (winter) In-depth study of career opportunities and job responsibilities; assessment of personal and professional assets and needs. On-the-job mini-experience related to career option. 4 lec.

312 Studies in Clothing and Textiles (2-4, max 8)

Prereq: perm. Selected topic in clothing and textiles.

315 Elementary Textiles (4)

Prereq: soph, Tier I math. (fall, winter) Properties and processing of fibers, yarns, fabrics, dyes, and finishes, with emphasis on consumer use. 3 lec, 2 lab.

383 Product Development, Evaluation, and Distribution (4)

Prereq: C or better 201 or 283. Examination of the evaluation criteria for quality control of apparel, home furnishings, and related products. Emphasis on development of new products. 4 lec.

399 Career Search Strategies (3)

Prereq: 299, jr, major. (fall) Job-seeking skills, company review, issues in professional development. Mini-professional experience. 3 lec.

400 Internship Preparation (1)

Prereq: 399. Professional skills are evaluated, internship plans are discussed, and portfolios are reviewed. 1 lec.

405A History of Costume (4)

Prereq: jr. (winter) Costume through ages as reflection of historical period and source for present-day design. 4 lec.

405B History of Textiles (2)

Prereq: 315. (spring, even yrs) Textiles through ages as reflective of historical period and source for present-day design. 2 lec.

407 Global Issues in Textile, Apparel, and Retail Industries (4)

Prereq: sr, jr English. (winter) Economic factors influencing textile and fashion industries treated in depth. 4 lec.

415 Flat Pattern (4)

Prereq: jr. (spring, odd yrs) Creative apparel design and interpretation with emphasis on flat pattern manipulation. 2 lec, 4 lab.

416 Draping (4)

Prereq: jr. (arranged) Designing of apparel using draping techniques. Emphasis on fabric as medium rather than pattern development in design process.

417 Retail Merchandising—Management (4)

Prereq: 201; CS 120, HS 309, MIS 100 or HCID 340; jr. (fall, winter) Marketing and management principles related to buying and controlling of merchandise. Emphasis on organizational structure, personnel management, planning, buying, and controlling merchandise assortments. Retail mathematics problems included. 4 lec.

418 Quality Control for Apparel and Textiles (4)

Prereq: C or better 315; sr. (spring) Principles, techniques, and standard testing methods for textiles and clothing. Lab sessions emphasize standard textile testing procedures and research methods. 2 lec, 4 lab.

419 Studies in Textiles Testing (3)

Prereq: perm. Individual research and lab testing of problems in advanced textiles.

420 New York Study Tour (2)

Prereq: jr. (spring, even yrs) Directed study problems related to textile and apparel industry in conjunction with on-site tours of textile and apparel market centers. Fees for travel, food and housing. Students receive credit (CR), not a letter grade.

423 Retail Merchandising—Promotional Strategy (4)

Prereq: 299, JOUR 250; jr. Provides a broad understanding of the ways in which goods, services, and ideas can be promoted within the retail industry. Emphasis on practical application. Incorporates factors influencing retail promotional planning such as communication theory, corporate and store image, target markets, and competitive marketplace stance with the promotional mix components. These factors serve as the foundation for the production of a comprehensive promotional marketing plan for a local retailer. 4 lec.

437 Strategic Merchandise Planning (4)

Prereq: C or better 417. (spring) Advanced use of spreadsheets and merchandise mathematics incorporated into computer simulations of various merchandising techniques. Topics include assortment planning, buying, personnel management, and inventory control. 4 lec.

454 Clothing for Persons with Special Needs (3)

(arranged) Exploring dressing techniques and functional design alternatives for individuals with special needs. Focus given to populations such as elderly, physically, or mentally disabled, and temporarily or permanently disabled. 3 lec.

480 Strategic Retail Policy (4)

Prereq: C or better 499. Capstone course serves as an intensive personal and professional assessment tool for prospective retailers. Projects lead to a completed professional portfolio. 4 lec.

499 Internship: Retail Merchandising (16)

Prereq: 400, sr only, perm. On-the-job experience through cooperation with industry and/or retail establishments.

Human Resource Management (HRM)

298 Internship (1)

Prereq: perm. Internship experience that provides on-site exposure to general business operations and procedures. Intended for experiences following the freshman year.

398 Internship (1-4)

Prereq: perm. Internship experience that provides opportunities to learn by participating in day-to-day activities of a business concern for at least four consecutive weeks. Intended for experience following the sophomore year.

420 Human Resource Management (4)

Prereq: MGT 200 or MGT 202 or perm. Survey of human resource management practices in areas of human resource planning, recruitment, selection, training and development, performance appraisal, compensation, discipline, safety audits, and personnel research. Includes applications in employment law and discussion of interface of line and staff responsibilities in organization.

425 Labor Relations (4)

Prereq: perm; 420 strongly recommended. Study of labor-management relationships, organization, campaigns, contract negotiations, grievance procedures, arbitration, and mediation and conciliation. Case studies and class exercises used extensively.

430 Compensation (4)

Prereq: 420; QBA 201 or PSY 221 or ECON 381 or INCO 301; or perm. Advanced study of human resource management function of compensation administration. Topics include job analysis, job evaluation, compensation surveys, pay structure design and implementation, benefits administration, and incentive programs.

440 Human Resource Training, Development, and Research (4)

Prereq: 420; QBA 201 or PSY 221 or ECON 381; or INCO 301, or perm. Advanced study of human resource management, functions of employee training and development, human resource research and costing. Topics include training needs analysis and program design, implementation, and evaluation; human resource research methods; and costing human resource programs.

450 Recruitment, Selection, and Appraisal (4)

Prereq: 420; QBA 201 or ECON 381 or INCO 301; or perm. Advanced study of human resource functions of recruitment, selection, and performance appraisal in organizations. Topics include recruitment planning and strategy, predictors for employee selection, criteria for evaluating job success, validation strategies, equal employment opportunity and affirmative action programs, and design and administration of employee performance appraisal systems.

460 Human Resource Policy, Planning, and Information Systems (4)

Prereq: 425, 430, 440, 450. Advanced integrative course serving as capstone in study of human resource management. Students expected to apply their knowledge of human resource strategies, techniques, and constraints through cases, experiential exercises, and other projects. Role of human resource information systems as basis for planning and policy decisions discussed.

491 Seminar (1-5)

Prereq: perm. Selected topics of current interest in human resource management.

497 Independent Research (1-4)

Prereq: perm. Research involving some human resource management topic. Topic selection and study are under direction of faculty member.

498 Internship (1-4)

Prereq: perm.

Humanities

See English.

Human Services Technology (HST)

The following courses for the A.A.S. in human services technology are available on the Chillicothe and Southern campuses.

100 Introduction to Human Services Technology (4)

Comprehensive introduction to knowledge and skills required for successful human services work. Topics include history and issues in human services, philosophical models, methods of service delivery, professional roles, and others.

110 Human Service Agencies (3)

Survey of the structure and functions of various human service agencies and programs. Program objectives and service delivery methods also will be described.

150 Behavior Management I (3)

Prereq: PSY 101 recommended. Examines application of behavioral principles and techniques to various human problems. Emphasis on learning to objectively describe, measure, and analyze behavioral data. Ethical issues in behavior management discussed.

151 Behavior Management II (4)

Prereq: 150. Continuation of 150, exploring additional applications of behavioral techniques in both individual and group settings. Practice provided in contingency contracting and designing token economy.

152 Behavior Management III (4)

Prereq: 151. Continuation of 151 with emphasis on specific behavioral techniques such as progressive relaxation training and biofeedback. Discussion of cognitive methods of behavior change. Course also attempts to integrate use of behavioral techniques with other intervention approaches.

170 Group Dynamics I (4)

Prereq: PSY 101 recommended. Explores theories and issues current in group dynamics. Provides exercises to demonstrate applications of various theoretical positions. Also discusses methods for implementing groups and outcome evaluation.

171 Group Dynamics II (3)

Prereq: 170. Continuation of 170 with emphasis on participation in variety of group exercises. Students involved both as participants and group leaders. Critical feedback and evaluation provided through videotaped group sessions.

200 Personal Management (3)

Examines management of one's own behavior and positive relationship with others in social context. Emphasis on empathy and understanding through literature and/or other modes of communication.

210 Practicum I (2)

Prereq: perm. Students will participate in 150 hrs of supervised field experience at local agency or institution. Provides opportunity to gain practical training and experience under guidance and supervision of professional agency staff.

211 Practicum Seminar I (1)

Opportunity for group discussion of special topics and problems related to student practicum experiences and professional development. Enrollment concurrent with 210.

220 Practicum II (2)

Prereq: 210. Provides additional opportunities to develop helping skills and to practice techniques learned in class. Students may opt for more intensive experiences at same agency as 210 or select another from those participating with HST program. 150 hrs required.

222 Practicum Seminar II (1)

Opportunity for group discussion of special topics and problems related to student practicum experiences and professional development. Enrollment concurrent with 220.

250 Practicum III (2)

Prereq: 220. Emphasis of final 150-hr practicum on continued skill development and broadening of experience. Students who have completed 210 and 220 at same agency expected to select another for final practicum.

255 Practicum Seminar III (1)

Opportunity for group discussion of special topics and problems related to student practicum experiences and professional development. Enrollment concurrent with 250.

275 Community Resources (3)

Prereq: soph or perm. Topics include basics of program planning; organizing community and local support for programs; researching potential funding sources. Development of grant writing skills including the areas of budget preparation and program evaluation.

290 Special Problems (1-4, max 10)

Provides opportunity for students to explore topics of interest on individual basis, or in structured courses developed as common interests arise. Additionally, credit may be awarded for advanced practicum experiences. May be repeated.

290L Case Management (3)

Provides an introduction to the philosophy, strategies and techniques, and applications of case management. Case management functions in such fields as mental health, mental retardation, corrections, and social and protective services will be explored.

Indonesian/Malaysian

See Foreign Languages and Literatures.

Industrial Maintenance Technology (IMT)

The following courses for the proposed A.A.S. in industrial maintenance technology are available only on the Lancaster campus.

110 Applied Manufacturing Techniques (3)

Comprehensive study of machine processes used in manufacturing with regard to selection, plant layout, and maintenance requirements. 2 lec, 2 lab.

115 Welding and Fabricating (3)

Welding and fabricating, including use of sheet metal fabricating. Covers gas and electric welding and cutting processes, as well as weld joint preparation and finishing. 1 lec, 4 lab.

117 Metal Machining I (3)

Prereq: 110. Basic operation and capabilities of conventional machine tools commonly used in the repair and maintenance of industrial equipment. 1 lec, 4 lab.

189 Special Topics (1-3, max 9)

Prereq: 110. Special topics that are current and relevant to the industrial maintenance field. May be repeated.

217 Metal Machining II (3)

Prereq: 117. Study and application of advanced metal machine tool practices, including the programming and operation of computer numerical controlled (CNC) milling equipment. 1 lec, 4 lab.

220 Basic Hydraulics and Pneumatics (4)

Application of hydraulic and pneumatic principles to common industrial control circuits, emphasizing maintenance of hardware and circuitry. 2 lec, 4 lab.

230 Tool Design (4)

Prereq: 117. Basic jig and fixture design. Relation to manufacturing processes, material requirements, gauging and cutting tools, with emphasis on repair and maintenance. 1 lec, 6 lab.

240 Materials and Material Testing (3)

Prereq: 110. Applications of materials used in manufacturing and design, including metals, plastics, ceramics, lubricants, coatings, and testing methods. 2 lec, 2 lab.

250 Machine Repair (3)

Prereq: 217. Machine repair as it relates to industrial equipment, including replacement of machine components such as bearings, shafts, and other wearing parts. 1 lec, 4 lab.

275 Self-Directed Work Teams (4)

Industrial work teams and the methods used to make them work. Explores use of continuous improvement and project management as they relate to the team concept. Includes field trips to local companies utilizing these methods. 2 lec, 4 lab.

289 Independent Study (1-5, max 5)

Prereq: 110. Study of a particular topic pertinent to the industrial maintenance field under the direction of a faculty member. May be repeated. 1-5 lec, 2-8 lab.

290 Externship (4)

Prereq: 110, 115, 117, 220, 240, 250. Performance of industrial maintenance technician duties in a supervised, unpaid experience, working 20 hours/week with a local company. Efforts are made to rotate experience.

Industrial Technology (IT)

100 Introduction to Industrial Technology (1)

Introduction to career opportunities, job functions, and professional organizations in industrial technology. Discussion of curriculum and departmental procedures. 1 lec.

101 Engineering Drawing I (3)

Basic theory and practice in engineering drawing. Topics include geometric construction, orthographic projection, dimensioning, and auxiliary, section, and pictorial views. Includes computer-aided drafting using AutoCAD. 2 lec, 3 lab.

102 Engineering Drawing II (3)

Prereq: 101. Theory and practice of constructing three dimensional geometric models using CAD. Includes geometric dimensioning and tolerancing and fasteners. Preparation of detail and assembly drawings using AutoCAD. 2 lec, 3 lab.

103 Computer Applications in Industrial Technology (3)

Study of computer hardware and software including operating systems, word processing, spreadsheet, database, and computer graphics. Exercises will stress common applications of software in engineering and technology and use of networks to share data among applications. 2 lec, 2 lab.

104 Architectural Drawing (5)

Prereq: interior design major or perm. Basic techniques used in architectural drawing. Includes use of instruments, orthographic and isometric projection, floor plans, elevations, and sections. 5 lec.

110 Introduction to Manufacturing Processes (4) (2A)

A survey of industrial materials and processes with applications to current manufactured consumer products. Emphasis is placed on generic processes such as forming and separating as applied to a variety of industrial materials. 4 lec.

117 Basic Metal Machining (4)

Prereq: 101. Study and application of basic machining processes used in manufacturing, including process planning, machine tool setup and operating procedures, metal cutting parameters, and machine tool capabilities. Also includes precision measurement and introduction to computer numerical control (CNC) and nontraditional machining. 1 lec, 4 lab.

121 Descriptive Geometry (3)

Prereq: 101. Theory and practical applications of graphic solutions of problems relating to points, lines, planes, and solids. Includes use of 3-D CAD geometric modeling software. 2 lec, 3 lab.

150 Wood Technology (3)

Prereq: 101, 110. Study of wood as an industrial material and manufacturing processes used to produce wood products. Includes material selection factors, component production, assembly and finishing processes. 1 lec, 4 lab.

201 Computer Graphics (3)

Prereq: 101. Study and application of advanced CAD software features including programming, meshes, and solid modeling. Comparison of raster and vector based graphics. 1 lec, 4 lab.

202 Technical Documentation (3)

Prereq: 101. Basic theory and practice of configuration control through documentation, including product and production specifications and engineering change orders. Emphasis on computer-aided document preparation. Includes document maintenance and control. 2 lec, 2 lab.

205 Geometric Dimensioning and Tolerancing (3)

Prereq: 101, 117. Theory and practice of geometric dimensioning as a precise engineering language to specify part geometry based on the function and relationship of assembled parts. Includes size tolerances, data, and all geometric characteristics. 3 lec.

206 Computer Numerical Methods in Industrial Technology (4)

Prereq: 103, 110. Study of methods for analytical reasoning and data analysis to model typical industrial production and economic problems. Lab activities include building computer models that integrate various software applications to document and report optimal solutions. 2 lec, 4 lab.

208 Industrial Plastics (4)

Prereq: 110; 117; or 150. Study of plastics materials and manufacturing processes. Includes material properties and applications. Emphasis on major industrial processes including injection molding, extrusion, and thermoforming. 2 lec, 4 lab.

215 Metal Casting (3)

Prereq: 150; 218. Theory and practice of cast metals and foundry processes. Includes pattern design, pattern making, sand analysis, charge metal composition, flow analysis, and foundry-related documentation. 1 lec, 4 lab.

217 Production Metal Machining (4)

Prereq: 102, 103, 117. Theory and practice of production techniques for metal machining using computer numerical control (CNC) machine tools and electrical discharge machining (EDM). Includes part print analysis, process analysis and planning, quality assurance factors, and an introduction to CAD/CAM. 1 lec, 4 lab.

218 Metal Fabricating and Casting (4)

Prereq: 101, 110, CHEM 122. Theory and practice of sheet metal forming and fabricating, and hot metal casting. Includes study of relationships of material properties to processing capabilities. Lab activities emphasize shearing, bending, welding, mechanical fastening, and sand casting. 2 lec, 4 lab.

220 Aircraft Powerplants (3)

Prereq: Aviation or airway science major or perm, PHYS 202 or 252. Theory, operation, and maintenance procedures for typical aircraft power plants. Lab experiences focus on maintenance and inspection of reciprocating engines, with reference to manufacturers' data and FAA regulations. 1 lec, 4 lab.

221 Power Transmission (3)

Prereq: 101, PHYS 201 or 251. Theory and practical applications of power and energy devices used in various industrial applications. 2 lec, 2 lab.

232 Electronics I (3)

Prereq: 221, PHYS 202 or 252. Theory and application of electricity and magnetism. Includes DC and AC circuit analysis, series and parallel circuits, passive devices and their characteristics, filters, electronic devices, and the generation and distribution of electric power. Includes study and use of semiconductors, diodes, and transistors. Lab experience in constructing and testing analog circuits. 2 lec, 2 lab.

303 Applications of Object Oriented Programming (3)

Prereq: 103 or CS 120 or MIS 100; IT 117, 232. Introduction to concepts of object oriented programming and rapid application development. Visual Basic used as programming language. Emphasis on integration with common Windows application programs and basic communication to devices.

309 Plastics Tooling (4)

Prereq: 102, 117, 150, 208, CHEM 121 or 151. Study of tooling required for extrusion, injection molding, compression molding, thermo-forming, and other production processes used to produce plastic parts. 1 lec, 4 lab.

318 Computer Numerical Control (3)

Prereq: 217. Advanced part programming for computer numerical control (CNC) machine tools. Labs emphasize conversational and EIA/ISO programming, culminating with part program generation via computer-aided design and machining (CAD/CAM) software. 1 lec, 4 lab.

320 Hydraulic Controls (3)

Prereq: 221. Application of hydraulic principles to common industrial uses for power transmission and mechanism control. Includes a study of hardware and circuitry. 1 lec, 4 lab.

333 Electronics II (3)

Prereq: 232. Theory and application of basic digital electronics. Includes integrated circuits, binary logic gates, encoders/decoders, counters. Emphasis on industrial applications of digital electronic systems. Lab experience in constructing and testing digital circuits. 2 lec, 2 lab.

347 Plastics Molding Processing (4)

Prereq: 117, 150, 208, CHEM 121 or 151. In-depth analysis of selected plastics processes including essentials of product/process design and their impact on product quality. 1 lec, 4 lab.

348 Plastics Forming and Fabricating (4)

Prereq: 102, 117, 150, 208, CHEM 121 or 151. Advanced study of plastics product manufacturing using extrusion, blow molding, thermo-forming, fabrication, composite, and finishing processes. Includes part and mold/die design, material selection, process optimization, and manufacturing costs.

351 Production Tooling (3)

Prereq: 217, 208, 363. Theory and practice of designing and constructing tooling to improve productivity and quality in various manufacturing applications. Computer-aided design and machining (CAD/CAM) software is used. 1 lec, 4 lab.

361 Product Design (3)

Prereq: 101. Study of stages in product design. Includes fundamental design, analysis, and simulation; design for manufacturability, reliability, standardization, and design communication. Lab activities emphasize use of computers in the design process. 2 lec, 2 lab.

363 Quality Assurance (3)

Prereq: MATH 250. Theory and practice of quality assurance principles in manufacturing. Includes statistical process control, process capability, gage capability, and quality management. 3 lec.

390 Industrial Materials (3)

Prereq: 208, CHEM 122. Advanced theory and application of common industrial materials. 3 lec.

395 Industrial Work Experience (1)

Prereq: perm. Credit for work experience related to B.S.I.T. degree. Minimum 10-week term of full-time employment required. Written report required. May be repeated for maximum of 3 credits.

400 Senior Seminar (1)

Prereq: sr. Discussion of projected employment opportunities, career enhancement activities, and professional development options in industrial technology. 1 lec.

405 Dimensional Analysis (4)

Prereq: 205. Study effects of general and geometric dimensioning on the form, fit, and function of an assembly of parts. Emphasis on solving assembly stack-up problems by manual calculation and computer simulation programs to determine clearance or interference between assembled components. 4 lec.

435 Digital Instrumentation and Controls (3)

Prereq: 320, 333. Theory and application of digital controls used in manufacturing. Includes development and implementation of relay logic, theory of closed loop control. Introduction to sensors, signal conditioning circuits, D-A and A-D conversions. Lab experiments emphasize use of programmable logic controllers to achieve sequencing of machines and equipment. 2 lec, 2 lab.

436 Electronic Applications in Manufacturing (3)

Prereq: 333. Study of practical applications of sensors and controllers to control processes and equipment. Emphasis on analysis and improvement of existing applications. Lab activities focus on the integrated control of conveyors, robots, and machines. 2 lec, 2 lab.

452 Computer Integrated Manufacturing (4)

Prereq: 217, 363, OPN 310. Theory and application of computer technologies used in manufacturing. Includes computer integration of design, process control, production and inventory control, material handling, machine control systems, and communications. 2 lec, 4 lab.

454 Automatic Identification (3)

Prereq: 333. Study of methods and systems used to automatically identify objects; includes bar coding, optical character recognition, magnetic stripe, radio frequency, and voice data entry systems. Various industrial applications are studied. Lab experiences emphasize bar coding technology. 2 lec, 2 lab.

462 Product Manufacturing (5)

Prereq: 351, 452. Development and implementation of a plan for manufacturing a product. Includes production planning and control, resource planning, product cost considerations, facilities planning, and tooling design and construction. 3 lec, 4 lab.

464 Robotic Applications (3)

Prereq: 333. Theory and practical applications of robots. Includes classifications, sensors and feedback mechanisms, and robot/computer communications. Lab activities emphasize on-line and off-line programming and setting up robotic cells. 1 lec, 4 lab.

483 Industrial Safety (3)

Prereq: 217. Study of organized industrial safety programs, including historical and social perspectives. 3 lec.

484 Maintenance Systems (3)

Prereq: 320 or 333. Study of organized industrial maintenance systems. Includes environmental control and structural, mechanical, and electrical requirements. 3 lec.

490 Special Investigations (1-4, max 4)

Prereq: perm. Independent concentrated study in a specific area under the direction of a faculty member.

491 Special Topics in Industrial Technology (1-5)

Prereq: perm. Selected topics that are current and relevant to industrial technology. May be repeated.

International Studies (INST)

The following courses are available through the Center for International Studies. Four are interdisciplinary courses focusing on Africa (113), Asia (103), Europe (118), and Latin America (121). These courses, which provide an introduction to the regions, satisfy social science requirements, University General Education Tier II (Third World cultures) requirements, as well as major and certificate requirements.* In addition, 80 faculty members in various departments on campus teach more than 150 courses each year that relate to Africa, Asia, Latin America, and Europe.

103 Modern Asia (5) (2C)

Introduction to history, cultures, and current problems of civilizations of Asia. Interdisciplinary survey dealing with China, Japan, India, and Southeast Asia (Burma, Thailand, Vietnam, Cambodia, Laos, Malaysia, Singapore, Indonesia, and the Philippines).

113 Modern Africa (4) (2C)

Interdisciplinary introductory survey of Africa, its culture, history, and modern development. Disciplines include: anthropology, art, dance, economics, education, geography, history, linguistics, literature, and political science.

118 European Studies (4) (25)

An interdisciplinary introduction to Europe and European Studies through discussion of selected topics from perspectives of geography, history, politics, sociology, economics, literature, and the arts. Special emphasis is given to post-Cold War issues, problems, and developments.

121 Interdisciplinary Survey of Latin America (4) (2C)

Introduction to Latin America through geography, politics, sociology, economics, literature, and art. Special emphasis given to 20th Century issues, problems, and developments.

350 Focus on Malaysia (5)

Introduction to geographical, historical, demographic, cultural, and political settings of Malaysia within the wider context of Southeast Asia. A survey of the historical development of Malaysia with emphasis on the period from the Second World War.

490 Tun Razak Seminar: Southeast Asia Studies (5)

The Tun Razak Seminar is designed to enable the holder of the Tun Abdul Razak Chair to present his or her particular specialization. This means the content of the course could be different from year to year, depending on the discipline of the holder. The focus of the course will be on Malaysia as well as other parts of Southeast Asia.

495 Internship (1-15)

This course is designed to allow for a practical experience in an international organization in the U.S. or abroad to complement the theoretical base supplied in area studies and comparative cultures courses. The applied experience will allow you to see the practical way in which cross cultural issues and second language usage are manifested in a work environment. The internship experience will also allow you to identify personal learning goals that will enhance your career prospects.

In cases where the required BAIS study abroad experience is impossible, an internship in the U.S., with the approval of your academic advisor, may substitute for the study abroad. You must identify an internship that provides an opportunity for utilization of your second language.

*For degree requirements, see "International Studies" in the College of Arts and Sciences section.

Interpersonal Communication (INCO)
101 Fundamentals of Human Communication (4) (2H)

Introductory analysis of oral communication in human relationships with focus on variety of contexts including dyadic, small group, and public communication experiences. Serves as survey of human communication processes. Mass lec.

103 Fundamentals of Public Speaking (4)

Prereq: 101 required for INCO majors only. Principles of public speaking, practice in presenting informative and persuasive speeches with emphasis on communicative process.

104 Listening (4)

Improvement of listening skills through intensive practice.

117 Beginning Forensics (1-3, max 9)

Students prepare for competition in oral interpretation, public speaking, and/or debate as part of the Ohio University Forensics Team. Travel to a weekend tournament at another university is required to earn credit. Number of credits depends upon number of performances prepared for competition.

205 Group Discussion (4)

Prereq: 101. Study of structure and dynamics of small groups, nature and functions of leadership, group participation, problem solving, and decision making; frequent participation in group discussion activities.

206 Communication in Interpersonal Relationships (4)

Prereq: 101. Provides maximum experience in study of communication in social interaction. Exploration of communication variables, and skill development in message generation in one-to-one informal settings.

215 Argumentative Analysis and Advocacy (4)

Prereq: 103. Basic principles of argumentative discourse including concepts of presumption, burden of proof, rhetorical forms of reasoning, and evidence. Practice in applying these principles.

217 Advanced Forensics (1-3, max 12)

Prereq: 117 or perm. Students prepare for competition in one or more individual events and/or debate as part of the Ohio University Forensics Team. Attendance at tournaments is expected.

220 Oral Interpretation of Literature (4)

Techniques of oral interpretation and development of adequate intellectual and emotional responsiveness to meaning of literature.

234 Introduction to Communication Theory (4)

Prereq: soph, 101, College of Communication major, or perm. Survey of selected humanistic and scientific approaches to communication studies. Emphasis on philosophical bases of communication theory.

240 Introduction to Health Communication (4)

Prereq: 234. Concerned with issues in the theory and practice of health communication. Topics include provider-patient communication, organizational communication in health care delivery systems, communication in community/consumer health education, information technologies in health communication, communication in support systems for the elderly, disabled, and terminally ill, and communication training for health care professionals.

245 Introduction to Organizational Communication (4)

Prereq: 234. Analysis of traditional and contemporary theories of communication in context of modern complex organizations (government, industry, education, etc.). Consideration and explication of such pertinent concepts and variables as message, channel, networks, information, information flow, communication climate, communication audit, etc.

250 Introduction to Rhetorical Theory (4)

Prereq: soph, jr, or sr; 215. Ancient and modern rhetorical communicative concepts and theories.

297T Interpersonal Communication Tutorial (1-15)

Prereq: Honors Tutorial College and perm.

298T Interpersonal Communication Tutorial (1-15)

Prereq: Honors Tutorial College and perm.

299T Interpersonal Communication Tutorial (1-15)

Prereq: Honors Tutorial College and perm.

300 Field Research Methods in Communication (4)

Prereq: jr. Discussion and application of communication data collection methods such as content analysis, participant observation, Q-analysis, questionnaire design, sampling procedures, case studies, and unobtrusive measures.

301 Empirical Research Applications in Communication (4)

Prereq: MATH 113 or higher or PSY 120; no credit if PSY 221 or QBA 201 or MATH 251. Provides undergraduates with principles and basic skills necessary to criticize research literature; develops minimal proficiencies in structuring designs basic to descriptive and experimental studies, including data collection, analysis, and presentation techniques in communication research.

302 Communication Research Methods (4)

Prereq: 301 or MATH 251 or QBA 201 or PSY 221. Examines the relationship between theory and different processes for the generation of knowledge. Various research activities such as computer utilization of library materials, quantitative and qualitative tools, and computer technology will be examined.

303 Rhetorical Analysis and Criticism (4)

Prereq: 250 or perm. Studies the approaches and methods of modern rhetorical critics. Emphasizes research and writing skills for a critical evaluation of rhetorical artifacts.

304 Principles and Techniques of Interviewing (4)

Prereq: jr. Methods used in two-party, face-to-face oral communicative situations commonly encountered in organizational and professional environments. Intensive practice through role-playing and real-life interviews in and out of class, emphasizing skills involved in giving and getting information, persuasion, and job-employment situations.

306 Interpersonal Conflict Management (4)
Prereq: 101. Analysis of the communication dynamics involved in managing interpersonal and organizational conflicts. Examination of theory and research related to conflict management. Emphasis on case studies and role-playing conflicts in various interpersonal and group settings.

315 Advanced Argument and Debate (4)
Prereq: jr or sr; 215. Purpose of course is to familiarize student with argumentation, rhetoric, and communication skills used in legal process. Advanced argumentation and debate course with legal issues used as basis for arguments.

342 Communication and Persuasion (4)
Prereq: jr. Process of communication and attitude change, survey of general theories and typical research, and analysis of contemporary persuasion problems.

351 Courtroom Rhetoric (4) (25)
Prereq: 250. Famous cases and methods of communication of masters of courtroom and judicial oratory. Cases, trials including Cicero, Strafford, Charles I, Erskine, Hastings, Marshall, Webster, Darrow, Sacco-Vanzetti.

352 Political Rhetoric (4) (25)
Prereq: 250. Rhetorical techniques found in political discourse are examined. Topics covered include symbolic politics, the place of myth in politics, and the political elements of film, literature, and television.

353 Contemporary Rhetoric (4) (25)
Prereq: 250. Explores the relationship between rhetoric and contemporary culture. Contemporary theories of rhetoric are examined and used to study communication in contemporary cultural issues. Issues involving identity and power, in particular, will be discussed.

397T Interpersonal Communication Tutorial (1-15)
Prereq: Honors Tutorial College and perm.

398T Interpersonal Communication Tutorial (1-15)
Prereq: Honors Tutorial College and perm.

399T Interpersonal Communication Tutorial (1-15)
Prereq: Honors Tutorial College and perm.

405 Meeting and Conference Planning (4)
Prereq: jr, 205. Theoretical and methodological approaches to principles of group and conference leadership. Emphasis on leadership methods and skills as they apply to group and conference situations.

406 Advanced Interpersonal Communication (4)
Prereq: 206 or perm. An examination of communication theories relevant to the study of interpersonal communication. Attention will be given to communication involved in initiating, developing, maintaining, repairing, and disengaging from interpersonal relationships.

410 Cross-Cultural Communication (4)
Prereq: jr. Analysis of processes and problems of communication as affected by national cultures; effects of differences in language, values, meaning, perception, and thought.

411 Communicating with People with Disabilities (4)
Examines the implications of communication between the physically disabled and able-bodied individuals/groups. The course utilizes simulated exercises, video presentations, field trips, and outside guest lecturers to give the student reasonable exposure to the disabled community.

420 Gender and Communication (4)
Prereq: 101 or 206 or equiv. Explores variations in communicative behaviors related to biological sex and psychological gender. Examines female and male communication in intrapersonal, interpersonal, small group, public, and organizational settings.

421 Instructional Training and Development in Communication (4)
Prereq: INCO major 245. Provides upper-level undergraduates with opportunity to learn how to design instructional training programs beginning with the needs assessment and continuing through the evaluation phase. Combination of lecture/ discussion and student presentations.

422 Communication in the Family (4)
Prereq: 101 or 206, jr. Examination of the communication concepts basic to understanding interaction in the family. Provides a framework for analysis of family communication. Explores communication issues that relate to family interaction, including conflict, power, intimacy, and the development of relationships. Presents a model of effective communication in the family. Consideration of verbal and nonverbal communication behaviors.

430 Communication and the Campaign (4)
Prereq: 342. Theory and practice of persuasion and management in campaign situations (political, religious, information, fundraising, advertising, etc.). Students may participate in local, state, or national campaigns, or do an in-depth research paper.

433 Signs as Communication (4)
Chief formulations from general semantics and their applications to field of communication.

442 Responsibilities and Freedom of Speech in Communication (4)
Prereq: jr. Ethical and rhetorical implications of constitutional guarantees on political, social, and religious speech; analysis of effects of famous legal cases on freedom of speech.

445 Senior Practicum in Organizational Communication (4)
Prereq: sr; org comm mjr; 245, 301, MATH 251, PSY 220, or QBA 201. Students assume roles in an internal real-to-life organization and engage in a consulting or training project with actual client. Opportunity to apply theories and skills developed in major.

452 Psychology of Speech (4)
Prereq: jr. Psychological principles active in communication such as concept-reference, meaning, vocal, verbal and nonverbal cues. Neurophysiological mechanism and socio-psychological-linguistic dimensions of speech examined.

470 Effective Classroom Communication for Teachers and Trainers (4)
Course focuses on interpersonal communication in classroom environment, with particular emphasis on communication between students and teachers. Taught in workshop format only during summer session.

471 Nonverbal Communication for Teachers and Trainers (4)
Course focuses on the nonverbal behaviors used by students and teachers/trainers, and the impact of those behaviors on student/teacher relationships. Taught in workshop format only during summer session.

472 Communication in Your Workplace: Strategies for Teachers and Administrators (4)
Course focuses on the organizational communication variables that operate within the classroom, school, community, and state. Increases the abilities of teachers and administrators to understand and respond to the various organizational constituencies to which they are accountable. Taught in workshop format only during summer session.

473 Effective Listening and Small Group Communication for Teachers and Trainers (4)
Course focuses on steps to more effective listening and working in small groups for teachers and trainers. Designed to familiarize teachers and trainers with the keys to active listening, the stages of group development and decline, how to manage groups, and improving their cooperation and productivity. Course is taught in concentrated lecture-seminar format during summer session only.

474 Family Communication for Teachers and Trainers (4)
This course explores issues of family communication for classroom teachers and organizational trainers. The definition and nature of contemporary families are explored. Children's views of the family and peer relationships are highlighted. Conflict, stress, decision making, and problem solving are discussed. Special activities for the teacher and trainer are provided.

475/575 Instructional Communication Assessment for Teachers and Trainers (4/5)
Examination of test construction and grading practices, procedures, and formats. Analysis of underlying assumptions and philosophies of assessment in education. Emphasis on the alignment among objectives, testing practices, and evaluation procedures.

477/577 Communicating with Diverse Students (4/5)
This course is designed to explore issues relevant to enhancing communication competence and effectiveness between individuals of diverse backgrounds. Specifically, the class will address interactions between people from a variety of backgrounds including gender, age, religious, geographical, ethnic or racial differences. The focus will be on examining the impact of variables such as communication. Students will have the opportunity to explore the underlying patterns that influence their own, as well as others', communication behaviors and discuss strategies to improve understanding of, and appreciation for, differences.

480 Topics in Communication (4)
Prereq: Comm mjr; perm. The structure of the course will vary with each instructor, but readings, classroom discussion, and demonstration of understanding through written work will be typical.

497 Internship (1-15)
Prereq: perm. Supervised practical training and experience in selected professional environments for INCO undergraduate students.

497T Interpersonal Communication Tutorial (1-15)
Prereq: Honors Tutorial College and perm.

498 Independent Study (1-4, max 12)
Prereq: written proposal, perm. May be repeated for credit.

498T Interpersonal Communication Tutorial (1-15)
Prereq: Honors Tutorial College and perm.

499T Interpersonal Communication Tutorial (1-15)
Prereq: Honors Tutorial College and perm.

Italian

See Foreign Languages and Literatures.

Japanese

See Foreign Languages and Literatures.

Journalism (JOUR)

105 Introduction to Mass Communication (4) (25)

All forms of mass communication, including newspapers, magazines, radio-television, book publishing, public relations, advertising, and photojournalism. Begins with analysis of communication process and ends with media career opportunities.

133 Precision Language for Journalists (4)

Intensive drill in grammar, punctuation, syntax, and usage in contexts designed especially for future journalists. Extensive attention to media examples. Diagnostic tests during first week place each student to work at own level, whether basic to prepare for beginning courses or more advanced for those who already show considerable ability but would like to sharpen language skills for advanced courses. Nonmajors welcome.

189 Journalism Workshop (1-4)

Workshop on selected topics of journalism and mass communication. May be repeated to total 6 hrs of credit.

221 Graphics of Communication (5)

Creative and practical aspects of typography, layout, and design of printed communication.

231 News Writing (4)

Prereq: typing proficiency and C or better in 133. Methods of gathering and evaluating news and writing typical news stories. Practice work covering assignments and preparing copy.

233 Information Gathering (3)

Prereq: 133. Gathering of information by journalists and other mass communicators from various sources, such as interviewing, use of libraries, government documents, computerized data bases, syndicated research, and business documents. Prepares communicators to conduct research and to assess and use material in media-related decision making.

235 Picture Editing (3)

Prereq: 221, 231. Principles and practices of picture editing. Includes consideration of picture sources, assignment, and handling; photographic technique and aesthetics; legal and ethical factors; visual idiosyncrasies of various media.

250 Advertising Principles (4)

Major factors in development of advertising programs.

270 Introduction to Public Relations (3)

Prereq: soph. Provides an overview of public relations, its history, development, practice, and application. Looks at the process of public relations, including the planning, implementation, and evaluation of public relations campaigns. Surveys techniques, strategies, and tactics used by public relations practitioners. Analysis of case studies.

311 History of American Journalism (4)

Development of newspaper, magazine, and broadcast journalism from colonial period to present. Social, political, economic, and mechanical aspects.

321 Print Advertising and Layout (4)

Prereq: 221, 231, 250. See title.

323 Advertising Practice (2)

Prereq: 321, perm. Lab work in preparing advertising for local advertisers.

325 Photojournalism (3)

Prereq: 231 or perm. Basic principles and practices of photojournalism for newspapers, magazines, and television. Includes consideration of roles of photographers and picture editors in communication and their relationships with other members of editorial team and mechanical departments of publications. Students shoot, process, and print pictures on assignment.

326 Advanced Photojournalism (3)

Prereq: 325, portfolio review, and perm. See title.

327 Color Photography (3)

Prereq: 326 and perm. Advanced course in photojournalism designed to give students working knowledge of color photography and processing.

331 Reporting Contemporary Issues (3)

Prereq: 231. Research, reading, and speech reporting on current social problems. Emphasis on analytical skills and ability to report in depth for mass audience.

332 Reporting Practice (2)

Prereq: 231, perm. Students develop news stories in city and sports reporting, along with features.

332B Reporting Practice (2)

Prereq: 231. Assignments at Department of African American Studies in news and feature reporting about black community.

332C Reporting Practice (2)

Prereq: 231, perm. Class serves as university's Student News Bureau, writing stories about accomplishments of other university students for release to hometown newspapers. Students handle entire process, from generating ideas through mailing releases.

333 News Editing (4)

Prereq: 221, C or better in 231. Copyreading, headline writing, news selection, and layout of news pages.

334 Editing Practice (2)

Prereq: 333, perm. Copyreading, handling of local correspondence, wire copy, and working out make-up problems.

336 Advanced Picture Editing (3)

Prereq: 325, 335, and perm. Advanced course in picture editing designed to equip students with basic knowledge and working skills necessary for employment on newspaper or magazine picture desk.

350 Radio Broadcast News (4)

Prereq: 231 and 233. Intensive writing and reporting skills development for radio news broadcast.

352 TV Broadcast News (4)

Prereq: 350. Intensive writing and reporting skills development for television news.

353 Broadcast News Practice (2)

Prereq: 350. Preparation of news for broadcast. Students serve as assistants in newsroom of university's broadcasting stations or, by special arrangement and perm, in other stations.

362 Community Newspapers (3)

Prereq: 333 or perm. Editorial and business practices of suburban weeklies and dailies.

363 Reviewing and Criticism (3)

Prereq: 231 and major, or perm. Written criticism of fine and popular arts. Special role of critic who serves both as reporter and evaluator of artistic works for lay audience.

370 Media Relations and Publicity (4)

Prereq: C or better 221, 270, 333. Focus on publicity function of public relations and on skills in both public relations writing and media contact.

375 Advertising Media Planning and Buying (4)

Prereq: 250, jr or perm. Strategy, techniques, and problems of planning and buying media. Learning to buy space and time effectively and economically. Learning use of syndicated sources of media information.

407 Electronic Publishing (4)

Prereq: 221, 231. Introduction to the production design, and techniques of electronic publishing using a journalistic approach. Explores many software packages for electronic publishing using Macintosh computers and provides experiences to develop a thorough knowledge of electronic publishing.

411 Newspaper and Communication Law (3)

Prereq: C or better in 231. Principles and case studies in communication law, constitutional guarantees, libel, privacy, contempt, privilege, copyright, and government regulatory agencies.

412 Ethics, Mass Media, and Society (3)

Prereq: C or better in 411 or perm. Social responsibility of journalistic or other mass communicator. Professional codes, responsibility of media for social change, reaction to political and economic pressures.

421 Graphic Production Processes (5)

Prereq: 221 and perm. Advanced study of all processes for reproducing printed communication. Theory and lab.

422 Advertising Production (4)

Prereq: 221, 321, or perm. Techniques and problems in methods of advertising production.

424 Direct Response Advertising (3)

Prereq: 250, MKT 301, or perm. An introduction to the scope of direct marketing and direct response media, including direct mail, broadcast and print advertising, catalogs, co-ops, telemarketing, inserts, and videocassettes.

430 Magazine Editing and Production (4)

Prereq: 221, 233. Theory and techniques of magazine editing and production, including analysis of magazine industry and of specific magazines and audiences they serve. Editorial objectives and formulas, issue planning, article selection, layout, illustration, typography, printing, and distribution. Magazine project required.

431 Magazine Production Practice (3)

Prereq: 430, 441, repeat with perm, max 9 hrs. Practice course on E.W. Scripps School of Journalism's quarterly lab magazine. Each student assigned specific responsibilities in magazine editing, production, advertising, and circulation.

432 Specialized Business Magazines (3)

Prereq: sr or perm. In-depth study of professional, business, industrial, and technical magazines. Consideration of all types of publishing problems, usually as case studies.

441J Magazine Feature Writing (4, max 8) (1J)

Prereq: 231, 233 or perm; may be repeated with different instructors. Writing and marketing factual magazine feature articles of various types. Finding subjects, securing photographs, writing articles, and surveying markets.

442 Advanced Magazine Feature Writing (3)

Prereq: 441. Writing and marketing magazine articles. Emphasis on specialized markets.

443 Advanced Magazine Editing (3)

Prereq: 431. Students edit real manuscripts from how-to to personal narratives. They learn to recognize weaknesses, devise solutions, and interact with writers. Ethical dilemmas posed by more experimental forms of magazine journalism also are covered.

450 Advertising Copy Writing (3)

Prereq: 221, 231, 250. Effective persuasion in art media.

452 Broadcast News Production (4)

Prereq: 352. Principles and practices of radio and television news production. Emphasis on blending news judgment with production techniques and tools.

455 Seminar in Broadcast News (3)

Prereq: 350, 352. Discussion of problems—operational, social, economic, legal, and ethical—faced by broadcasters reporting public affairs.

458 TV News Practicum (4)

Prereq: 352. Practicum in preparation and presentation of TV newscast. Students select news material, including video, format, and script for newscast, then deliver on air. Students will rotate through various newscroom positions during quarter.

459 Advanced TV News Practicum (3)

Prereq: 452, 458. Advanced practicum in preparation and presentation of TV newscast. Students involved in selecting, editing, scripting, and formatting for on-air newscasts. Students also appear on air and assume management responsibilities.

461 Specialized Journalism (3)

Prereq: sr and perm. Seminar approach to individual study of journalistic areas of special interest to individual students.

464 Reporting of Public Affairs (3)

Prereq: 231, sr, major, or perm. Problems of preparing in-depth, interpretive, and analytical reports on public affairs for mass media, with practice in writing such reports. Focus mostly on contemporary issues.

465 The Editorial Page (3)

Prereq: 333, sr, major, or perm. Problems of content, selection, and presentation of opinion on editorial page. Extensive writing of analytical and persuasive editorials and in-depth interpretive articles.

466 International Mass Media (4)

Prereq: sr. Development and operations of world mass communication channels and agencies. Comparative analysis of media, media practices, and flow of news throughout world. Relation of communication practices to international affairs and understanding.

467 Foreign Correspondence (4)

Prereq: 231 or perm. Role of foreign correspondent in news gathering. History, scope, techniques.

468 Column Writing (3)

Prereq: 231. The study of newspaper columnists, past and present, with extensive writing of various kinds of columns.

470 Sportswriting (3)

Prereq: 231. A look at sportswriting from lead to 30—the good, the bad, and the ugly of life in a sports press box.

471 Public Relations Principles (4)

Prereq: 370, sr, and PR major or perm. Using contemporary case studies, all aspects of public relations are studied and analyzed in group discussions and written projects. Heavy emphasis on participation in class discussions.

472 Advanced Public Relations (4)

Prereq: 471 or perm. Planning public relations programs and projects, including selection of audiences, messages, and media, and evaluation of effects. Project in area of student's interest.

475 Advanced Advertising**Media Planning and Buying (4)**

Prereq: 250, 375, jr. Media theories appropriate in specific client advertising situations. Use of computer software for solving media problems. Review, creation, and testing of quantitative and qualitative media models, advanced work in media objectives, strategy, tests, and execution of media plans and evaluation.

476 Advertising Research (4)

Prereq: 250, sr. Original research in advertising, research methods and procedures, and syndicated/secondary research. Exploration and use of computing center to complete advertising research project.

477 Media Sales and Promotion Management (4)

Prereq: 250, 321, 482. Overview and professional projects concerning media sales and promotion management. Development of sales promotion plan and professional advertising sales presentations.

481 Newspaper Management (3)

Prereq: 333. Problems in publishing affecting all departments.

482 Radio-Television Advertising and Management (4)

Prereq: 221, 231, and 250, or perm. See title.

483 Magazine Publishing and Management (3)

Prereq: 430. An introduction for editors to audience, circulation, industry trends, repositioning, and launching of magazines. History of the rise and fall of publishing empires, including the financial, legal, and ethical realities that shaped them.

484 Supervising School Publications (4)

Prereq: 12 hrs or perm. Conference course for prospective advisors of school newspapers, yearbooks, magazines, and other publications. Purposes and functions, legal aspects, staff selection, content, copy, layout, production, printing, advertising, photography, business.

485 Journalism in the Secondary School Curriculum (4)

Prereq: 9 hrs of journalism. Intensive study and analysis of appropriate content for high school journalism courses. Planning course outlines and curricula.

486 Advertising Campaigns (5)

Prereq: 14 hrs advertising, advertising or PR major, and perm. Capstone course in advertising sequence to provide thorough understanding of basic elements of advertising campaigns. Includes creation of campaign.

488 Humor Writing for Print, Broadcast (3)

Prereq: jr or sr, perm. Theory and techniques of writing humor for newspapers, magazines, speeches, and other media.

489 Journalism Workshop (1-4)

Selected topics of journalism and mass communication, including newspapers, yearbooks, advertising, magazines, photojournalism, public relations, and publications advising. May be repeated to total 10 hrs of credit.

490 Independent Study (1-4, max 15)

Prereq: written proposal and perm. See title.

491 Research in Journalism and Communications (1-15)

Prereq: perm.

492 Seminar (1-5)

Prereq: perm. Selected topics of current significance. May be repeated with different topics to 12 hrs credit.

Latin

See Foreign Languages and Literatures.

Latin American Studies

See International Studies.

Law Enforcement Technology (LET)

The following courses for the A.A.S. in law enforcement technology are available on the Chillicothe and Southern campuses.

100 Introduction to Law Enforcement Technology (3)

Philosophy and history of law enforcement; overview of crime and police problems; organization and jurisdiction of local, state, and federal law enforcement agencies; survey of professional career opportunities and qualifications required.

110 Police Role in Crime and Delinquency (3)

Extent and distribution of crime and delinquency, with special emphasis on basic factors and conditions contributing to problem; some case study and evaluation of community resources in prevention field and detailed review of role of school, family, religious institutions, law enforcement agencies, courts, and correctional institutions. Part law enforcement agencies play in juvenile delinquency control, organization and functions of related juvenile agencies, laws governing handling of juvenile offenders, and brief resume of juvenile court and its jurisdiction.

120 Constitution, Criminal, and Civil Law (3)

Prereq: 100. Study of U.S. Constitution and amendments thereto by text material and case method system; major emphasis on freedom of speech, search and seizure, arrest and detention, interrogation and confession, self-incrimination, right to counsel, double jeopardy, and due process situations.

130 Interviewing and Report Writing (3)

Examination of interviewing and interrogation procedures employed by law enforcement for obtaining information, plus practical experience in use of methods. Mechanics of writing reports, including collecting information and taking statements, writing descriptive narratives, and report revision.

140 Introduction to Criminalistics (3)

Survey of systematic collection of evidence and potentialities and recommendations of applied science to criminal investigation. Includes demonstration of techniques used in processing criminal evidence and practical experience in selected crime lab methods.

150 Police Patrol Operations (3)

Focus on patrol function. Examination of purposes, methods, techniques, and types of patrol. Overview of support services, examination of various police services and public assistance, and analysis of deployment procedures and practices as related to overall mission of police patrol.

200 Procedures, Rules, and Test of Evidence (4)

Prereq: 120 or perm. Instruction designed to acquaint officer with court system in Ohio, its functions, authority, and duties. Explains workings of all courts of record and provides description of mayor's courts which are only courts not of record in State of Ohio. Kinds and degrees of evidence. Admissibility of evidence in criminal court cases, materiality and competency of evidence. Distinction between admissions and confessions; exceptions to hearsay rule; types of evidence.

210 Cybernetics (3)

Application and use of computers and/or automated systems for rapid storage and retrieval of information. Types of electronic data processing systems and their compatibility with contemporary police operations explored.

220 Court Procedures and Processes (3)

Case preparation, officer testimony and demeanor in court, effective preparation and presentation of criminal evidence, trial procedures, utilization of written notes, and reaction to cross examination.

230 Police Community Relations (3)

Nature of relationships between police and various segments of community; racial and/or ethnic minorities, news media, clergy, and youth explored. Historical reasons for present dilemma and suggested changes to alleviate these problems.

240 Law Enforcement, Administration, and Supervision (3)

Prereq: 100. Principles of law enforcement agency administration. Organization, planning and research, management, personnel management, training, and public relations. Administrative functions in vice control, crime delinquency prevention and control, patrol, investigation, communications, statistics, and records.

250 Vice and Narcotic Control (3)

Prereq: 140. Exploration of history, identification, and effects of narcotics. Narcotic and vice problem as it exists and penal statutes affecting control of narcotics and vice studied.

260 Criminal Investigation (3)

Fundamentals of investigation; crime scene search and recording; correction and preservation of physical evidence, scientific aids, modus operandi, sources of information, interviews and interrogation, follow-up, and case preparation. 3 lec, 2 lab.

270 Arrest, Search, and Seizure (3)

Prereq: 200. In-depth discussion of moral and legal obligations in use of police weapons. Includes legal provisions, safety precautions, and restrictions in use of firearms. Advanced theories and application, police combat shooting, all-weather firing, and new developments in police weaponry. Training for student in lawful methods of search and seizure and discussion of search of persons, places, and things, with emphasis on legality. Applicable court decisions and rulings presented and discussed. 3 lec, 2 lab.

275 Law Enforcement and the Deaf (4)

Problems involved in working with a deaf suspect/victim. Includes different types of deaf, different sign languages, problems in communication, cultural aspects, and protecting individual rights and the officer's case. Covers ADA requirements for law enforcement, courts, and attorneys.

276 Legal Rights of Hearing Impaired (4)

Up-to-date legislation involving hearing impaired/deaf citizens.

280 Traffic Enforcement, Education, and Engineering (3)

Prereq: 100. Law relating to registration of motor vehicles, driver's license, Vehicle Code sections most often encountered and violated, regulation and traffic control, traffic accident investigation, traffic accident report forms; types and uses.

290 Special Problems (3)

Provides opportunity for students to explore topics of interest on individual basis, or in structured courses developed as common interest arises.

Library Science

See Education—Curriculum and Instruction.

Linguistics (LING)

270 The Nature of Language (5) (2S)

Nontechnical introduction to basic nature of human language: its sound patterns, structure of words and sentences, nature of meaning, children's acquisition of language, animal communication, ways languages change, etc.

275 Introduction to Language and Culture (4)

Prereq: soph or above. Study of similarities and differences of language behavior in variety of cultural contexts.

280 Language in America (4)

Prereq: soph or above. Analysis of similarities and differences in language behavior in America, including dialects and immigrant languages.

350 Introduction to General Linguistics (5)

Prereq: jr or sr; credit not given for both 270 and 350. Technical introduction to linguistic principles and methods of description in the areas of phonetics, phonology, morphology, syntax, and semantics.

351 Fundamentals of General Linguistics (5)

Prereq: jr or sr and 270 or H55 108; credit not given for both 350 and 351. General course in fundamental linguistic principles; duality of patterning; phonetics/phonology; syntax/semantics; morphology.

370 Introduction to Psycholinguistics (4)

Prereq: 350 or 351 (or concurrent) or perm. Study of linguistic behavior and psychological mechanisms responsible for it.

390 Language of Women and Men (4)

Prereq: jr or perm. American speech as used by women and men in terms of linguistic and social factors.

395 Introduction to Area Linguistics (3-5)

Prereq: perm. Investigation of linguistic characteristics of specific group or subgroup of languages within Malayo-Polynesian or African families.

410 Language Teaching Practicum (3)

Prereq: 475 and 480. Practice in the teaching of English as a second or foreign language with faculty supervision.

440 Introduction to Bilingualism (4)

Prereq: 350 or 351 (or concurrent) or perm. Introduction to bilingual theories from psychological, sociological, educational, and linguistic perspectives.

445 Instructional Materials in Bilingualism (5)

Prereq: 440 or perm. Creation and analysis of teaching materials in bilingual education.

451 Computers for Language Teaching I (4)

Prereq: 350 or 351 (or concurrent) or perm. Introduction to uses of computers for language teaching, software selection, and creation of supplementary computer-assisted language learning (CALL) materials.

452 Computers for Language Teaching II (4)

Prereq: 451 and 480 or ML 445 or perm. Creation of CALL materials using authoring packages, authoring languages, or programming languages.

453 Computers for Language Teaching III (4)

Prereq: 452. Developing a comprehensive CALL package.

460 Phonology (5)

Prereq: 350 or 351 (or concurrent) or perm. (fall) Introductory course in analysis of sound systems of natural languages.

470 Syntax (5)

Prereq: 350 or 351. Introduction to theory and application of grammatical analysis of natural languages.

475 Theories of Language Learning (4)

Prereq: 350 or 351 or concurrent. Introduction to theories of first and second language acquisition and their implications for language teaching methodology.

480 TEFL Theory and Methodology (4)

Prereq: 475 or concurrent. Second language teaching theory and methodology, with emphasis on teaching English as foreign language.

481 Methods and Materials in TESL (4)

Prereq: 475 or concurrent. Introduction to methods, techniques, and materials useful in the teaching of English in second language contexts and specifically in the public schools.

482 Materials in TEFL (4)

Prereq: 480 or concurrent. Theory and practice of analysis, evaluation, and creation of instructional materials for teaching English as a foreign language.

483 Testing in TESL (4)

Prereq: 480 or 481 or concurrent or perm. Evaluation and writing of language test items appropriate for measuring global competency and competency in specific skill areas. Entry and exit testing for public school ESL programs also discussed.

485 Historical Linguistics (4)

Prereq: 460, 470 or concurrent. Study of genealogical classification of languages, and of historical change in language systems.

490 Sociolinguistics I (4)

Prereq: 350 or 351 (or concurrent). Observation and analysis of similarities and differences of language behavior in variety of linguistic and sociocultural contexts.

491 Sociolinguistics II (4)

Prereq: 490. Introduction to relationships between interlocking systems of language and social grouping.

495 Directed Research (3)

Prereq: perm. Independently directed project on a particular topic of interest in linguistics; required of all majors.

499 Special Studies in Linguistics (1-3)

Prereq: perm. Independent study of particular area of interest in linguistics.

Malaysian

See Foreign Languages and Literatures.

Management (MGT)

100 Managing (2)

Introduces the basic concepts of management and the basic functioning of business. In addition, students develop an understanding of current issues confronting managers in business and nonprofit organizations. Emphasis on starting to develop the skill to reason like a manager.

191 Workshop in Management (1-4)

Provides traditional and nontraditional students with specialized course offerings directed toward identified needs. Facilitates offering short courses, workshops, and institutes involving intensified instruction in pertinent management areas.

200 Introduction to Management (4) (2S)

Prereq: non-College of Business students. Nature of managerial concept, managerial functions, and organizational structure with emphasis on current issues.

202 Management (4)

Prereq: soph. Understanding of and practice in solving problems facing managers and administrators using concepts and principles from behavioral sciences and other applicable disciplines. No credit given to students who have completed 200. Students assumed to have background in economics, accounting, business law, and statistics equiv to ECON 103 and 104, ACCT 102, BUSL 25S, QBA 201 or PSY 221 or ECON 381, or INCO 103.

298 Internship (1)

Prereq: perm. Internship experience that provides on-site exposure to general business operations and procedures. Intended for experiences following the freshman year.

340 Organizational Behavior—Micro Perspective (4)

Prereq: jr. Conceptual framework of behavioral sciences to management and organizations. Motivation and leader behavior within organizational settings.

345 Organizational Behavior—Macro Perspective (4)

Prereq: jr. Organizational theory and behavior emphasizing formal organizational theory and work group behavior. Concentrates on interaction between organization, its environment and its members, and influences of informal work groups on member behavior.

398 Internship (1-4)

Prereq: perm. Internship experience that provides opportunities to learn by participating in day-to-day activities of a business concern for at least four consecutive weeks. Intended for experience following the sophomore year.

428 Nonindustrial Labor Relations (4)

Prereq: jr and perm. Labor management relations problems and practices in nonprofit-making organizations such as government (city, county, state, and federal), educational institutions, charity and health care organizations. Covers such topics as relevant laws and regulations, administrative response to unionization attempts, contract negotiations, contract administration including grievance handling, and arbitration through lectures, readings, and case analyses.

430 Management Systems—Decision Making (4)

Prereq: 200 or 202 or 300 or perm. Decision making and problem solving in organizations from managerial perspective.

480 Business Organizations—Change and Development (4)

Prereq: 340. Advanced study of the theory of internal change processes and organizational development within business organizations. Topics include role of the manager in the change process, need for change, systems analysis of the change process, identification of change processes, research considerations, use of internal vs. external change agents, and current trends.

484 International Comparative Management (4)

Prereq: sr. Survey and analysis of similarities and differences in management systems, processes, and styles, as well as evaluation of changes and their impact in selected groups of countries.

486 Business World of Asia (4)

Prereq: 200 or 202 or 300 or sr or perm. Examines the current business environment of Asia from the perspective of contemporary history, culture, religion, political economy, geography, and current events. Emphasis is given to developing awareness of global information resources on prospects for active business involvement in Asia. Students are encouraged to develop special expertise in one of the Asian countries, to network with one another for broader understanding, and to pursue in-depth areas of special personal interest.

491 Seminar (3-5)

Prereq: jr or perm. Selected topics of current interest in management and organizational behavior area.

492 Management Thought (4)

Prereq: sr. Review of development of managerial theories from 5000 B.C. to present with consideration of their application to current organizational settings.

494 Management Research (4)

Prereq: 12 hrs of management courses. Practical application of research methods in behavioral sciences to management problems, emphasizing research available and its use in decision making and in solving managerial problems.

497 Independent Research (1-4)

Prereq: perm. Research in selected fields of management and organizational behavior under direction of faculty member.

497H Independent Research (1-4)

Prereq: 3.3 g.p.a., written proposal, and perm. Independent research. Course content selected by professor and student.

498 Internship (1-4)

Prereq: perm.

Management Information Systems (MIS)

201 Introduction to Microcomputers (3)

Introduces student to computer concepts within the framework of business applications. Students do computer assignments including word processing, spreadsheet analysis, and data base applications. No credit for both 201 and CS 120.

202 Business Information Systems (4)

Prereq: 100 or CS 120 or CTCH 125 or BMT 200 or HS 309 or IT 103. Addresses issues that arise in dealing with management information as a business resource. As an introduction to the field of management information systems, topics covered deal with computer technologies, information development, and impact of information systems on business organizations at a variety of levels, from personal information systems to organization information architectures. Major attention is given to the implications of information systems for achieving competitive advantage.

220 Introduction to Business File Processing (4)

Prereq: 100 or 201 or CS 120 or CTCH 125 or BMT 200 or HS 309 or IT 103. Students learn to write programs in a GUI environment to solve business problems. Structured programming is emphasized.

225 Prototyping and Fourth Generation Languages (4)

Prereq: 220. Students will learn how to write business applications using fourth generation languages to process data in an object-oriented environment.

230 Advanced Microcomputer Spreadsheet Applications (4)

Prereq: 100 or 201 or CS 120 or CTCH 125 or BMT 200 or HS 309 or IT 103. Advanced functions of spreadsheet programs will be examined. Groups of spreadsheet applications will be integrated to create systems designed to support common business functions.

235 Advanced Microcomputer Data Base Applications (4)

Prereq: 100 or 201 or BMT 200 or CTCH 125 or CS 120 or HS 309 or IT 103. Relational data base software will be used to create integrated data storage and retrieval systems. These systems will be used to solve business problems.

298 Internship (1)

Prereq: perm. Internship experience that provides on-site exposure to general business operations and procedures. Intended for experiences following the freshman year.

320 Business Systems I (4)

Prereq: 225. First of a two-part series related to the development of computer information systems in business. This course looks at the planning and management of information systems development projects, along with tools for requirements analysis and evaluation of alternatives. Emphasis on prototyping and use of fourth generation languages. Begins a major project which will be finished in 420.

325 PC LAN Applications (4)

Prereq: 225. Introduction to Local Area Networks. Students serve as network administrators to install, cable, and configure a Local Area Network. Topics include creating users, installing software, setting up printers, establishing security, and managing the network.

380 Business Data Base I (4)

Prereq: 225. Focuses on the use of relational data base technology in implementing business applications. Emphasizes the concepts of data base design and implementation and gives students a chance to create their own data bases.

398 Internship (1-4)

Prereq: perm. Internship experience that provides opportunities to learn by participating in day-to-day activities of a business concern for at least four consecutive weeks. Intended for experience following the sophomore year.

420 Business Systems II (4)

Prereq: 320, 380. Second of a two-part series on the development of computer information systems in business. This course looks at tools for design and implementation of computer information systems, along with testing and maintenance of systems.

430 IBM COBOL (4)

Prereq: 220. Deals with application of COBOL programming language to problems in marketing, finance, management, accounting, and economics.

455 Distributed Systems (4)

Prereq: 325. This class treats organization-wide networking, comparing the advantages and disadvantages of various network configurations. The class emphasizes Wide Area Network planning, with special attention to data administration policies and procedures.

460 Introduction to Groupware Applications (4)

Prereq: 320, 380. Introduction to the industry standard groupware product, Lotus Notes. The purpose of this course is twofold: (1) an understanding of groupware, groupware applications, and business implications of these applications, and (2) hands-on experience with using Lotus Notes and designing/developing groupware applications.

480 Business Data Base II (4)

Prereq: 380. This course builds on the concepts learned in Business Data Base I. Students learn to use advanced data base features in a lab-oriented environment. Applications will be written to solve business problems using the data stored in the data base.

485 Management Information Systems (4)

Prereq: 320 and 380. This is the capstone course for MIS majors. It will focus upon ways in which information systems can be created to give competitive advantages to businesses. The class will emphasize the management of computing from a people and data perspective, demonstrating that computer-based systems are increasingly the principal tool of effective management.

491 Seminar (1-4)

Prereq: 320, 380. Selected topics of current interest in the management information systems area.

492 Lab Assistant Seminar (1-15)

Prereq: perm. Students assist instructors with advising of students in lab classes. Assistants must receive an A in the lab class to be eligible to serve as an assistant. One hour of credit is given for three hours of assistant work.

497 Independent Research (1-4)

Prereq: accepted proposal and perm. Research in selected fields in management information systems under the direction of a faculty member. Student must submit a proposal and have it accepted by a faculty member before taking this course.

498 Internship (1-4)

Prereq: 12 hrs of MIS courses above 100, perm.

Marketing (MKT)
101 Consumer Survival in the Marketplace (4)

How consumer can adapt himself or herself to modern marketing environment to increase satisfaction derived from spending his or her money.

202 Marketing Principles (4)

Prereq: ACCT 101. Formerly 301. Principles of marketing management with emphasis on practices and problems of marketing managers; analysis of marketing environment. Lecture supplemented with class discussion and/or cases.

258 Skills for Professional Development (4)

Focuses on developing personal skills such as time management, networking, telephone use, computer etiquette, business etiquette, positive thinking, stress management, career planning, listening, and mapping the informal organization. Topics chosen by instructor.

298 Internship (1)

Prereq: perm. Internship experience that provides on-site exposure to general business operations and procedures. Intended for experiences following the freshman year.

358 Techniques in Personal Selling (4)

Prereq: 202 or 301; marketing major or perm. Combines personal selling theory with actual practice. Students required to give sales presentations, interview professional sales representatives, analyze short cases, and produce final paper of complete sales presentation. Professional salespeople used as guest speakers to talk on current topics in area of sales.

379 Marketing Research (4)

Prereq: 202 or 301; QBA 201 or equiv. statistics course. Techniques involved in collection, tabulation, and analysis of marketing information.

398 Internship (1-4)

Prereq: perm. Internship experience that provides opportunities to learn by participating in day-to-day activities of a business concern for at least four consecutive weeks. Intended for experience following the sophomore year.

404 Management of Distribution (4)

Prereq: 202 or 301; ACCT 102; preference to majors. Problems encountered by manufacturer in establishing and maintaining effective distribution system, concentrating on channel design and strategies.

420 Services Marketing (4)

Prereq: Prereq: 202 or 301 or perm. This course reflects the increasing proportion of GNP taken up by the service sector. Included in course material will be the recreation industry, government agencies, financial institutions, professional (legal, medical) services, and other industries that do not sell a physical good as their main offering to the public. The course will consist of lecture, case work, and outside of class assignments. Students will be expected to analyze materials and write short reports.

425 Business to Business Marketing (4)

Prereq: 202 or 301. Perspective on the field of business marketing—what is business marketing and in what market does business marketing occur? Objectives are to: (1) understand organizational buyer behavior as compared to and contrasted with individual consumer buyer behavior, (2) understand the best methods of assessing market opportunities in business markets, and (3) understand and develop business marketing strategies based on the environment facing a firm and the likely changes to that environment, including evaluating business performance.

441 International Marketing (4)

Prereq: 202 or 301; preference to majors. Marketing problems, opportunities, and organization of multi-national firms to serve overseas markets. Government aids and impediments and comparison of markets and marketing techniques in U.S. and foreign countries.

444 Consumer Behavior (4)

Prereq: 202 or 301. Illustrates practical importance of understanding consumer's knowledge and attitudes; discusses various approaches for assessing such knowledge and attitudes. Identifies major factors that influence how consumers process and learn marketing information and encourages discussion of various techniques at the marketer's disposal for influencing consumer attitudes and behavior.

450 Management of Promotion (4)

Prereq: 202 or 301; preference to majors. Problem-solving course leading to development and management of firm's promotional mix with emphasis on use of mass media and on stimulation of reseller's cooperation.

458 Advanced Topics in Sales (4)

Prereq: 358. Principles and practices in planning, organizing, and controlling sales force. Selection, training, compensating, supervising, and stimulating salespeople. Analysis of sales potentials and costs.

463 Marketing Strategy (4)

Prereq: 20 hrs of MKT including 201 or 301 and 379. Analysis of preparation and organization of overall marketing plans and elements of marketing mix. Also developed are merchandising analyses, objectives, and strategies which take into consideration ever-changing consumer, trade, and legal environments.

491 Seminar (1-4)

Prereq: perm. Selected topics of current interest in marketing area.

493 Readings (1-4)

Prereq: perm. Readings in selected fields of marketing. Topics selected by student in consultation with faculty member.

497 Independent Research (1-4)

Prereq: perm. Research in selected fields of marketing under direction of faculty member.

498 Internship (1-4)

Prereq: perm.

Materials Management Technology (MMT)

The following courses for the proposed A.A.S. in materials management technology are available only on the Lancaster campus.

101 Introduction to Materials Management (4)

Introduction to career of materials management, covering roles and responsibilities of the materials manager and how they relate to manufacturing processes.

189 Special Topics (1-3, max 9)

Prereq: 101. Special topics that are current and relevant to the materials management field. May be repeated.

200 Computer Applications in Materials Management (4)

Prereq: 101. Computer applications in materials management, including the use of data bases for inventory control, purchasing, and other electronic information. Also covers computer applications for electronic communications. 2 lec, 4 lab.

250 Shipping and Warehousing (3)

Prereq: 101. Shipping and warehousing of materials from point of origin to point of destination, emphasizing packaging, transportation, and storage. 2 lec, 2 lab.

262 Plant Layout and Material Handling (3)

Prereq: 101. Basic principles of plant facilities layout in relation to the flow of material through the workplace, including study of material handling system to move material in bulk or containers to and from the manufacturing processes. 2 lec, 2 lab.

263 Process Control (3)

Prereq: Tier I MATH Analysis of basic principles of quality control, including frequency distribution, sampling inspection, and charts and gauges related to inspection. Field trips part of lab activity. 2 lec, 2 lab

264 Production Scheduling (3)

Various established techniques of scheduling, analyzing, and improving production operations. Focuses on detailed study of applications for CPM, PERT, MRP, and other production systems. 2 lec, 2 lab.

270 Introduction to Organizational Behavior (4)

Types of behavior organizations exhibit and human relations skills. Covers face-to-face discussions, dialogue over the phone, and other communication skills.

289 Independent Study (1-5, max 5)

Prereq: 101. Study of a particular topic pertinent to the materials management field under direction of a faculty member. May be repeated. 1-5 lec, 2-8 lab.

290 Externship (4)

Prereq: 101, 200, 250, 262, 263, 264. Performance of materials manager duties in a supervised, unpaid experience, working 28 hours/week with local businesses. Efforts are made to rotate experience.

Mathematics (MATH)
101 Basic Mathematics (4)

Prereq: placement level Dev1. Developmental course in arithmetic and elementary algebra for students with unusually weak backgrounds. Credit applies as hours toward graduation but meets no other college requirement. No credit to student who has passed higher-level mathematics course.

102 Elementary Algebra (4)

Prereq: placement level Dev2. Developmental course in algebra for students with unusually weak backgrounds. A maximum of 8 credit hours of developmental courses may be applied for graduation. Meets no other college requirement. No credit to student who has passed higher-level mathematics course Available on regional campuses.

See General Education Requirements in the Graduation Requirements—University Wide section for quantitative skills requirements.

109 Consumer Mathematics (4) (1M)

Prereq: placement level 1. (formerly 151) Applications of elementary mathematics to day-to-day problems. Special emphasis on consumer topics such as compound interest, mortgages, and installment buying. Scientific calculator required. Does not apply to arts and sciences requirements. No credit to those with credit for course above 150.

113 Algebra (5) (1M)

Prereq: 101 or placement level 1. Topics in algebra including functions, linear equations and systems, polynomials, rational and radical expressions, quadratic equations, exponential and logarithmic functions, and inequalities. Graphing calculators are employed. No credit to those with credit for 117 or 263A.

115 Pre-Calculus (5) (1M)

Prereq: 113 or placement level 2. Graphs, inverses, and operations of functions. Study of polynomial, rational, exponential, logarithmic, and trigonometric functions. Additional topics from trigonometry and analytic geometry. Recommended only for students intending to enroll in the 263 calculus sequence.

117 Elementary Applied Mathematics (4) (1M)

Prereq: placement level 1. Topics from intermediate algebra such as functions and graphs, systems of linear equations, 3x3 determinants, factoring, quadratic equations and inequalities, exponents and radicals, and logarithms. Available by correspondence and on some regional campuses. Students cannot earn credit for both this course and 113.

118 Elementary Applied Mathematics (4) (1M)

Prereq: 117 or placement level 1. Topics from trigonometry and analytic geometry including trigonometric functions and their graphs, vectors and oblique triangles, trigonometric identities, j-operator, straight lines, conic sections, and translation of axes. Available by correspondence and on some regional campuses. Students cannot earn credit for both 118 and any of: 115, 116, or 130.

120 Elementary Topics in Mathematics (4) (1M)

Prereq: placement level 1. 120-121-122 is a sequence for majors in elementary education and related fields. Emphasis of 120 is on number systems and related properties. 121 and 122 focus on topics related to elementary curriculum including geometry, algebra, statistics, and probability. Satisfies Tier I requirement for elementary education majors only. Does not apply to Arts and Sciences natural science requirements.

121 Elementary Topics in Mathematics (4) (1M)

Prereq: 120. Continuation of 120. Does not apply to Arts and Sciences natural science requirements.

122 Elementary Topics in Mathematics (3) (1M)

Prereq: 121. Continuation of 120-121. Does not apply to Arts and Sciences natural science requirements.

150 Finite Mathematics (4) (1M)

Prereq: 113 or placement level 2. (formerly 250A) Set theory; logic; vectors and matrices; linear programming.

163A Introduction to Calculus (4) (2N)

Prereq: 113 or placement level 2. Presents survey of basic concepts of calculus. For students who want introduction to calculus but do not need depth of 263ABC. Note: Not open for credit to students who have credit for 263A. Students should not take 163A and/or 163B in preparation for 263A or 263B. Credit cannot be earned for both 263A and 163A.

163B Introduction to Calculus (3) (2N)

Prereq: 163A. Continuation of 163A. Note: Not open for credit to students with credit for 263B.

211 Elementary Linear Algebra (4) (1M)

Prereq: 163B or 263A. Solutions to linear systems, matrices and matrix algebra, determinants, n-dimensional real vector spaces and subspaces, bases and dimension, linear mappings, matrices of linear mappings, eigenvalues and eigenvectors, diagonalization. Emphasis is on techniques and computational skills. No credit to students who have completed 410 or 411.

250 Introduction to Probability and Statistics I (4) (1M)

Prereq: 113 or placement level 2. (formerly 250B) Organization of data, central tendency and dispersion, probability, concept of random variables, binomial and normal probability distributions. No credit for 250 if already credit for 450A, PSY 120, PSY 121, PSY 221, ISE 304, or ISE 305.

251 Introduction to Probability and Statistics II (4) (1M)

Prereq: 250. Estimation, linear regression and correlation, and analysis of variance. Students in business administration should enroll in more specialized QBA 201. No credit for 251 if already credit for 450B, QBA 201, PSY 120, PSY 121, PSY 221, or ISE 306.

NOTE: It is strongly recommended that students who earn lower than a C in any course in the 263 calculus sequence retake that course before progressing in the sequence.

263A Calculus (4) (2N)

Prereq: 115 or placement level 3. Limits and differentiation, including trigonometric functions with applications. Students cannot earn credit for both 263A and 163A.

263B Calculus (4) (2N)

Prereq: 263A. Continuation of 263A. Integration, logarithmic, exponential, and other transcendental functions; indeterminate forms, improper integrals, and techniques of integration.

263C Calculus (4) (2N)

Prereq: 263B. Continuation of 263A-B. Parametric equations, polar coordinates, infinite series, and vectors.

263D Calculus (4)

Prereq: 263C. Continuation of 263A-B-C. Multidimensional topics, partial differentiation, multiple integrals.

297T Mathematics Tutorial (1-15)

(fall) Special program for students of unusual ability.

298T Mathematics Tutorial (1-15)

Prereq: 297T. (winter) Continuation of 297T. See 297T for description.

299T Mathematics Tutorial (1-15)

Prereq: 298T. (spring) Continuation of 297T and 298T. See 297T for description.

300 History of Mathematics (4)

Prereq: math major, jr or sr. Survey of main lines of mathematical development in terms of contributions made by great mathematicians.

NOTE: The following four courses (306, 307, 314, 330) are primarily intended for prospective mathematics majors to introduce them to mathematical theory at an elementary level.

306 Foundations of Mathematics I (4)

Prereq: 263A or 163B. An introduction to mathematical thinking and formal proofs. Topics include sets, relations, and functions.

307 Introduction to Number Theory (4)

Prereq: 306. Investigation of properties of natural numbers. Topics include mathematical induction, prime factorization, Euclidean algorithm, Diophantine equations, congruences, and divisibility.

314 Elementary Abstract Algebra (4)

Prereq: 306. Mappings, relations, definitions, and examples of groups, groups of rotations, cyclic groups, Lagrange's Theorem, fields, polynomials over fields.

320L Teaching of Mathematics in Secondary School (5)

Prereq: 211, 330B, and jr. Orientation to professional mathematics education and topics related to teaching of mathematics on secondary school level. Not counted toward math major or minor.

330A Foundations of Geometry (4)

Prereq: 306. Introduction to axiomatic mathematics via 2 finite geometries and variety of interpretive models. Develops plane Euclidean and non-Euclidean geometries in rigorous fashion from axiomatic approach.

330B Foundations of Geometry (4)

Prereq: 330A. Continuation of 330A. See 330A for description.

333 Elementary Projective Geometry (4)

Prereq: 330 or perm. Topics in projective geometry.

340 Differential Equations (4)

Prereq: 263C. Ordinary differential equations and related topics.

343 Mathematical Modeling (4)

Prereq: 250, and 163B or 263B. Construction and analysis of mathematical models and their use in investigation of physical, chemical, geological, social, and environmental problems. Models which use only elementary mathematical concepts stressed.

360 Intermediate Analysis (4)

Prereq: 263D and 306, or perm. Rigorous study of limits, continuity, and differentiability of functions of 1 real variable.

397T Mathematics Tutorial (1-15)

(fall) Special program for students of unusual ability.

398T Mathematics Tutorial (1-15)

Prereq: 397T. (winter) Continuation of 397T. See 397T for description.

399T Mathematics Tutorial (1-15)

Prereq: 398T. (spring) Continuation of 397T and 398T. See 397T for description.

406 Foundations of Mathematics II (4)

Prereq: 306. Introductory topics in set theory and axiomatic development of real number system.

407 Number Theory (4)

Prereq: 307, 263C. Topics in number theory.

410 Matrix Theory (4)

Prereq: 263D. Matrix algebra, determinants, solutions of linear systems, eigenvalues and eigenvectors, matrix functions and applications to differential equations, Jordan canonical form, inner products diagonalization and generalized inverses. Intended primarily for students interested in applied mathematics, engineering, and sciences.

411 Linear Algebra (4)

Prereq: 306. (fall) Vector spaces and linear transformations, characteristic values, quadratic forms, dual spaces, normal forms, and Jordan canonical form.

412 Introduction to Algebraic Coding Theory (4)

Prereq: 211 or 410. Encoding and decoding. Vector spaces over finite fields. Linear codes, parity-check matrices, syndrome decoding, Hamming and cyclic codes. Multiple error correcting BCH codes.

413A Introduction to Modern Algebra (4)

Prereq: 314 or 411. (winter) Groups, permutation groups, subgroups, normal subgroups, quotient groups. Conjugate classes and class equation formula and its applications to p-groups. Fundamental theorem on homomorphisms.

413B Introduction to Modern Algebra (4)

Prereq: 413A. (spring) Fundamental theorem on finite abelian groups and its consequences. Cauchy theorem and first Sylow theorem. Polynomial rings. UFD and Euclidean domains. Maximal ideals. Algebraic extensions and splitting fields. Fundamental theorem of Galois theory.

439 Topics in Geometry (1-5, max 10)

Prereq: perm. When demand is sufficient, course in some phase of geometry will be offered under this number.

440 Vector Analysis (4)

Prereq: 263D. Vector algebra and its applications. Vector calculus and space curves. Scalar and vector fields, gradient, divergence, curl, and Laplacian. Line and surface integrals. Divergence theorem. Stoke's theorem, and Green's theorem.

441 Fourier Analysis and Partial Differential Equations (4)

Prereq: 340 and 263D. Representation of functions as sums of infinite series of trigonometric functions, Bessel functions, Legendre polynomials, or other sets of orthogonal functions. Use of such representations for solution of partial differential equations dealing with vibrations, heat flow, and other physical problems.

442 Theory of Linear and Nonlinear Programming (4)

Prereq: 211 or 410, and 263D; computer programming experience is desirable. Minimization of functions subject to equality and inequality constraints, Kuhn-Tucker theorem, algorithms for function minimization, such as steepest descent and conjugate gradient and penalty function methods. (Not a course in computer programming.)

443 Mathematical Modeling and Optimization (4)

Prereq: 263D, 340, 211 or 410. Investigation of differential equation models of physical, social, and biological phenomena by qualitative analysis. Optimal criteria incorporated to convert models to optimal control problems. Pontryagin's maximal principle used to find analytic solutions. Numerical solutions to optimal control problems also treated.

444 Introduction to Numerical Analysis (4)

Prereq: 263D, 340, and CS 220. Polynomial interpolation and approximation; numerical integration and differentiation; numerical solution to differential equations; numerical methods for matrix inversion, determination of eigenvalues, and solutions of systems of equations.

445 Advanced Numerical Methods (4)

Prereq: 441, 444. (winter) Numerical methods for solutions of ordinary and partial differential equations (credit for only 1 of 445 or ET 445).

446 Numerical Linear Algebra (4)

Prereq: 410 and CS 220 or equiv. Floating point arithmetic, numerical solution of systems of linear equations using Gaussian elimination and its variants, numerical techniques for eigenvalues, error analysis, and implementation of algorithms on computer.

449 Advanced Differential Equations (4)

Prereq: 340, and 410 or 411. Introduction to theory of ordinary differential equations with special attention to oscillation, plane autonomous systems, Liapunov theory, and quadratic functionals.

450A Theory of Statistics (4)

Prereq: 263D. (fall) Probability distribution of 1 and several variables; conditional probability and independence; moment generating functions; central limit theorem.

450B Theory of Statistics (4)

Prereq: 450A. (winter) Sampling theory, estimation of parameters, confidence intervals, analysis of variance, correlation, and testing of statistical hypotheses.

450C Theory of Statistics (4)

Prereq: 450B. (spring) Topics in statistics.

451 Stochastic Processes (4)

Prereq: 450B. Markov chains, Poisson process, birth and death process, queuing, and related topics.

460A Advanced Calculus (4)

Prereq: 360. (fall) Critical treatment of functions of one or several variables. Topics in the 460 A-B-C sequence include the basic topological features of Euclidean spaces, a careful study of limits and continuity, Riemann-Stieltjes integration, uniform convergence, and multidimensional differentiation and integration.

460B Advanced Calculus (4)

Prereq: 460A. (winter) Continuation of 460A. See 460A for description.

460C Advanced Calculus (4)

Prereq: 460B. (spring) Continuation of 460A-B. See 460A for description.

470 Complex Variables (4)

Prereq: 263D. Analytic and harmonic functions. Cauchy integral and residue theorems, contour integration, Taylor and Laurent expansions, conformality, and linear transformations with applications.

480A Elementary Point Set Topology (4)

Prereq: 360. (winter) Topology of Euclidean spaces and general metric spaces.

480B Elementary Point Set Topology (4)

Prereq: 480A. (spring) Introduction to general topological spaces.

490 Selected Topics in Mathematics (1-5)

Prereq: perm of instructor and chair. When demand is sufficient, course in some phase of mathematics will be offered under this number. (May be repeated for credit.)

491 Studies in Mathematics (1-15)

Prereq: 6 hrs of 400-level courses, sr or jr in Honors Tutorial College, or perm of chair and instructor. Selected topics in mathematics studied under guidance of instructor particularly interested in field. (May be repeated for credit.)

497T Mathematics Tutorial (1-15)

(fall) Special program for students of unusual ability.

498T Mathematics Tutorial (1-15)

Prereq: 497T. (winter) Continuation of 497T. See 497T for description.

499T Mathematics Tutorial (1-15)

Prereq: 498T. (spring) Continuation of 497T and 498T. See 497T for description.

Medical Assisting Technology (MAT)

The following courses for the A.A.S. in medical assisting technology are available only on the Lancaster campus.

101 Introduction to Medical Assisting (2)

Introduction to the career of medical assisting. Roles and responsibilities of a medical assistant; overview of the health care profession; and the safety, liability, professional, and interpersonal relationships necessary in the medical field.

140 Medical Terminology for the Medical Assistant (3)

Understanding and usage of medical terms used in the allied-health field. Emphasis is on the spelling of, definition of, and creation of medical terms through the understanding of prefixes, suffixes, and root words. Terminology learned through body system knowledge. Credit cannot be earned for both 140 and OTEC 141M.

150 Medical Transcription and the Medical Assistant (3)

Prereq: 140 or concurrent, OTEC 121. Application of medical transcription rules to typical medical documents, including those used in both hospitals and ambulatory-care settings. Covers proper use and correct spelling of medical terminology, as well as increased production of documents.

170 Administrative Medical Assisting (4)

Prereq: 101, OTEC 121. Introduction to the medical office and current administrative practices. Topics include confidentiality and the daily practices of the medical assistant.

201 Clinical Techniques (4)

Prereq: 101, BIOS 103. Introduction to medical laboratory theory and practice in preparation for physical examination. Patient and exam room preparation, vital sign tests, taking health histories, aseptic techniques, infection control, and universal precautions are studied. 3 lec, 2 lab.

202 Clinical Techniques II (4)

Prereq: 201. Theory and practice in minor hematology, laboratory tests, urinalysis, administering medications, pharmacology, and venipuncture. Covers documentation and government regulations, and the processes of sterilization, quality control, and vision and blood testing. 2 lec, 4 lab.

203 Clinical Techniques III (4)

Prereq: 202. Theory and practice in assisting with minor office surgery, office procedures, and diagnostic procedures. Operation, maintenance, and inventory control of equipment and supplies required of a medical assistant. 2 lec, 4 lab.

210 Law and Ethics for Medical Assisting (2)

Prereq: 101. Introduction to the law and ethics as they apply to allied health fields. Topics include practicing in a medical office, professional liability and medical malpractice, medical records and informed consent, medical ethics, documentation and reporting, and licenses and accreditation.

230 Insurance Billing and Coding for the Medical Assistant (4)

Prereq: 140, 170. Theory and application of skills necessary to process insurance forms in the health care setting. Covers major nationwide medical insurance programs and extensive study and use of ICD-9-CM and CPT coding.

250 Computerized Office Procedures for the Medical Assistant (4)

Prereq: 170, 230. Theory and application of skills necessary to manage administrative duties in a medical office. Emphasis is on computer applications and tasks such as scheduling and billing.

290 Special Topics (1–5, max 5)

Prereq: 101. Special topics current and relevant to the medical assisting field.

291 Independent Study (1–5, max 5)

Prereq: 101. Independent study of a particular topic pertinent to medical assisting under the direction of a faculty member.

295 Externship (3)

Prereq: 203. Practical experience as a medical assistant in a supervised unpaid clinical experience. Student performs administrative and clinical procedures and develops professional attitudes. Student works 21 hours per week each week during the quarter enrolled.

Medical Technology

See Preparation for Clinical Laboratory Science under Arts and Sciences or Biological Sciences under Courses of Instruction.

Microbiology

See Biological Sciences.

Military Science (MSC)
Army ROTC

The Department of Military Science offers two programs of instruction leading to a commission as a second lieutenant in the United States Army, the United States Army Reserve, or the Army National Guard. Military science is an elective program open to both men and women who are citizens of the United States.

The four-year program consists of a basic course and an advanced course. The basic course requires successful completion of military science 100- and 200-level courses during the freshman and sophomore years. The advanced course requires successful completion of military science 300- and 400-level courses during the last two academic years. The courses are two credit hours each. During both the basic course and the advanced course, you must attend a leadership lab for two hours each week in addition to the two hours of classroom instruction each week. Advanced course students must also attend a six-week summer training camp. (See MSC 330.)

No military obligation is incurred for the first two years of the four-year program. Following completion of the basic course, qualified students are accepted for the advanced course by entering a ROTC contract which obligates them to complete the program of instruction and accept a commission in the U.S. Army, U.S. Army Reserve, or the Army National Guard. Advanced course students receive a subsistence allowance of \$150 for each academic month of enrollment, not to exceed two years.

The two-year program is offered for students who transfer from colleges that do not offer ROTC or whose academic course load did not permit military science during their first two years. Students qualify for the two-year program in one of several ways. The first is by attending Army ROTC Basic Camp, Camp Challenge (see MSC 230). Upon successful completion of camp, you may enter the advanced course. Attending basic camp does not require you to continue in the program, nor does it incur any military obligation. The second is by receiving credit for honorable prior military service of at least one year, as determined by the professor of military

science. Additionally, you may receive credit for two or more years of junior ROTC at the high school level. After receiving credit for the basic course, you proceed with the advanced course as previously described. Other options are available for selected situations or circumstances.

Regional Campus Students can participate in the two-year program by attending advanced courses at the Athens campus.

101 Introduction to the Army (2)

Prereq: fr or soph. (fall) Broad overview of the Army as an institution of the U.S. government. Introductory course to the Army's Reserve Officer Training Corps (ROTC) and overview of the curriculum that can lead to a commission as a second lieutenant in the U.S. Army. Increases self-confidence through activities in basic drill, physical fitness, rappelling, and firing the M-16 rifle. Teaches fundamental concepts of leadership in a profession in both classroom and outdoor laboratory environment. 2 hrs and a required 1-hr lab, 110L, plus optional participation in a 1-hr session for physical fitness and one weekend exercise.

102 Basic Skills I (2)

Prereq: fr or soph. (winter) Provides an understanding of selected basic soldier skills that are essential to the Army's ability to win on the modern battlefield. Develops communication and leadership skills to improve individual performance and group interaction. Reinforces self-confidence through participation in basic drill, physical fitness, and a water survival exercise. Provides hands-on training of basic individual skills both in the classroom and outdoor laboratory environment. 2 hrs and a required 1-hr lab, 110L, plus optional participation in a 1-hr session for physical fitness and a weekend exercise.

103 Basic Skills II (2)

Prereq: fr or soph. (spring) Continuation of selected basic soldier skills that are essential to the Army's ability to win on the modern battlefield. Develops skills to navigate on the ground by understanding map reading. Reinforces self-confidence through participation in basic drill, physical fitness, rappelling, and a land navigation exercise. Provides hands-on training of basic individual skills both in the classroom and outdoor laboratory environment. 2 hrs and a required 1-hr lab, 110L, plus optional participation in a 1-hr session for physical fitness and a weekend exercise.

110L Leadership Laboratory (0)

Prereq: Concurrent with 101, 102, 103. Provides additional skills and hands-on experiences and allows the student to practice what was taught in the classroom. Offers insight into a military organization and builds self-confidence and team-building skills.

201 Basic Skills III (2)

Prereq: fr or soph. (fall) Continues basic skills by applying teamwork as a small group. Teaches the fundamentals of land navigation and basic life-saving techniques. Enhances survival awareness through lectures, films, and participation. Includes a one-day orienteering course, which occurs on a weekend during the quarter. 2-hr-a-week course with a required Leadership Lab, MSC 201L, one day a week. The course also includes rappelling and rifle familiarization, which may not occur during inclement weather.

202 Introduction to Leadership/Team Building (2)

Prereq: fr or soph. (winter) Uses ethics-based leadership skills to develop individual abilities and contribute to the building of effective teams of people. Develop skills in oral presentations and military correspondence. Presents the fundamentals of military leadership and their application to team development. Teaches the basic duties of the commissioned and noncommissioned officer. This course is a 2-hr-a-week course with a required Leadership Lab, MSC 202L, once a week.

203A Introduction to Squad Tactics (2)

Prereq: fr or soph. (spring) Introduction to individual and team development of military tactics in small unit operations. Includes use of radio communications, movement techniques, issue and operation order, security, and troop leading procedures. Teaches techniques for training others as an aspect of continued leadership development. This course is a 2-hr-a-week course with a required Leadership Lab, MSC 203L, one day a week. Includes rappelling and rifle familiarization, which may not occur during inclement weather.

210L Leadership Laboratory (0)

Prereq: Concurrent with 201, 202, 203. Provides additional skills and hands-on experiences and allows the student to practice what was taught in the classroom. Offers insight into a military organization and builds self-confidence and team-building skills.

230 Army ROTC Camp Challenge (4)

6-week summer off-campus training program that qualifies students for direct entry to advanced ROTC course. Transportation to and from camp, uniforms, meals, and housing paid for by Army.

301 Leadership and Small Unit Operations I (2)

Prereq: perm. Study of basic leadership principles, the Army decision-making process, small unit tactics, and required individual skills. Course includes intrinsic leadership practical exercises. A 2-hr-a-week lab, three 1-hr sessions of physical training a week, and a required weekend field training exercise are required parts of the course.

302 Leadership and Small Unit Operations II (2)

Prereq: 301. Continuation of 301 developing from squad to platoon level organization and tactics, as well as an increased complexity in leadership positions. Labs, physical training, and a field training exercise are required as part of the course.

303 Leadership and Small Unit Operations III (2)

Prereq: 302. Continuation of PLT level operations with an increased emphasis on the dynamics of leadership to include the ethical decision-making process and the laws of war. The course also makes final preparations for the student to attend their summer training. Labs, physical training, and a field training exercise are required as part of the course.

310A Advanced Leadership Laboratory (0)

Prereq: enrollment in 301. (fall) Designed to allow you to actually practice what is taught in the classroom by using a hands-on approach.

310B Advanced Leadership Laboratory (0)

Prereq: enrollment in 302. Continuation of 310A. See 310A for description.

310C Advanced Leadership Laboratory (0)

Prereq: enrollment in 303. (spring) Continuation of 310A-B. See 310A for description.

330 Army ROTC Advanced Camp, Camp Adventure (4)

Prereq: 303. 6-wk field training session conducted at Ft. Bragg, N.C. Exposure to barracks life and daily leadership activities of future commissioned officers in field and garrison. Training by elements of U.S. Army 82nd Airborne Division. Transportation to and from camp, uniforms, meals, and lodging paid for by the Army.

401 Applied Leadership I (2)

Prereq: 303. Provides opportunity to plan, conduct, and evaluate activities of the Army cadet organization. Assess organizational cohesion and develop strategies to improve it. Develop confidence in skills to lead people, manage resources, and plan and execute complex small-organization operations. Teaches application of various Army policies and programs. Two hours and a required Leadership Lab, MSC 410, plus participation in three 1-hr sessions for personal and organizational physical fitness.

402 Applied Leadership II (2)

Prereq: 401. Continuation of 401. Increased emphasis on critical thinking skills and ability to quickly identify and resolve complex leadership issues.

403 World Change (2)

Prereq: 402. (spring) U.S. in contemporary world scene. Includes study of other major actors in world arena.

410A Advanced Leadership Laboratory (0)

Prereq: enrollment in 401. (fall) Allows you to plan and conduct training events such as drill and ceremony and land navigation.

410B Advanced Leadership Laboratory (0)

Prereq: enrollment in 402. (winter) See 410A for description.

410C Advanced Leadership Laboratory (0)

Prereq: enrollment in 403. (spring) See 410A for description.

490 Special Problems (1-5, max 15)

Prereq: perm. Provides continuing military education on individual basis. Provides advanced and specialized training depending upon needs of individual and department.

Music (MUS)
Applied Music

Fee for private instruction for all applied music (piano, voice, organ, strings, woodwinds, brass, percussion) is \$12 per quarter hour.

Note: A description of the proficiency requirements for applied music may be obtained from the School of Music.

090 Performance Laboratory (0)

Required of all undergraduate music majors.

141 Class Piano (2)

Prereq: music major.

141A Class Piano (2)

Prereq: nonmusic major. *G. Berenson.*

142 Class Piano (2)

Prereq: 141, music major. Continuation of 141.

142A Class Piano (2)

Prereq: 141A, nonmusic major. *G. Berenson.* Continuation of 141A.

143 Class Piano (2)

Prereq: perm, 142, music major. Continuation of 141 and 142.

143A Class Piano (2)

Prereq: 142A, nonmusic major. *G. Berenson.* Continuation of 142A.

147 Class Voice (2)

Prereq: music major. For students enrolling in beginning voice.

147A Class Voice (2)

Prereq: nonmusic major. Beginning instruction in voice for nonmusic majors.

148 Class Voice (2)

Prereq: 147. Continuation of 147.

148A Class Voice (2)

Prereq: 147A, nonmusic major. (winter) Continuation of 147A.

149 Class Voice (2)

Prereq: 148. Continuation of 148.

149A Class Voice (2)

Prereq: 148A, nonmusic major. (spring) Continuation of 148A.

165 Class Folk Guitar (2)

Prereq: music major. *P. Coddington.* Introduction to guitar fundamentals including the playing of chords and melodies using varied systems of notation, basic strumming and finger-picking techniques, and tuning. Skill development in the use of guitar in vocal accompaniment and early solo work.

165A Class Folk Guitar (2)

Prereq: nonmusic major. See 165 for further description.

166 Class Folk Guitar (2)

Prereq: 165. Continuation of 165.

166A Class Folk Guitar (2)

Prereq: 165A. *P. Coddington.* Continuation of 165A.

241 Class Piano (2)

Prereq: music major, 143 with minimum grade of C, or perm.

242 Class Piano (2)

Prereq: 241, music major. Continuation of 241.

243 Class Piano (2)

Prereq: 242, music major. Continuation of 241 and 242.

244D Communiversity Band (2)

Prereq: audition. A wide variety of music literature, including marches, overtures, and musicals is studied and performed both on and off campus under both a permanent and guest conductor.

251A Marching Band (2)

Prereq: audition. *R. Suk.*

251B Wind Ensemble (2)

Prereq: audition. *J. Climer.*

251C University Band (1)

Prereq: audition. *R. Suk.*

251D Varsity Band (1)

Prereq: audition. *R. Suk.*

251E Concert Band (1)

Prereq: audition. *J. Climer.*

252A Symphony Orchestra (2)

Prereq: audition. *K. Furumoto.*

252B Chamber Orchestra (1)

Prereq: audition. *K. Furumoto.*

253A University Singers (2)

Prereq: audition. *P. Jarjisian.*

253B Choral Union (1)

Prereq: audition. *P. Jarjisian.*

253C Opera Theater (1-4)

Prereq: audition. *R. Stephens.*

253D The Singing Men of Ohio (1)

Prereq: audition. *I. Zook.*

253E Women's Chorale (1)

Prereq: audition. *P. Jarjisian.*

254A Chamber Music, Strings (1)

Prereq: strings. Participation in playing of standard string chamber literature.

254B Chamber Music, Woodwinds (1)

Participation in playing of standard woodwind chamber literature.

254C Chamber Music, Brass (1)

Participation in playing of standard brass chamber literature.

254D Chamber Music, Percussion (1)

Participation in playing of standard percussion chamber literature.

254E Chamber Music, Contemporary (1)

New music ensemble. Participation in performing contemporary chamber music for various ensembles of instruments and voices.

254F Chamber Music, Piano (1)

Participation in playing of standard piano chamber literature.

255A Jazz Ensemble (1)

Prereq: audition. *M. James.*

255B Percussion Ensemble (1)

G. Remonko.

255C Trombone Choir (1)

T. Baker.

257 Collegium (1)

Prereq: audition.

340 Voice (1-4)

Prereq: music major. *N. Beebe, P. Pease, M. Stephens, I. Zook.*

341 Piano (1-4)

Prereq: music major. *G. Berenson, S. Henry, R. Syracuse.*

343 Organ (1-4)

P. Barte.

343A Harpsichord (1-4)

P. Barte.

344 Violin (1-4)

S. Boe.

345 Viola (1-4)

S. Boe.

346 Violoncello (1-4)

M. Schroeder.

347 Double Bass (1-4)

D. Messina.

348 Flute (1-4)

A. Freedy.

349 Oboe (1-4)

D. Conaty.

350 Bassoon (1-4)

H. Robison.

351 Clarinet (1-4)

R. Rischin.

352 Saxophone (1-4)

M. James.

353 Trumpet (1-4)

J. Schlabach.

354 Horn (1-4)

S. Smith.

355 Euphonium (1-4)**356 Trombone (1-4)**

T. Baker.

357 Tuba (1-4)**358 Percussion (1-4)**

G. Remonko.

359 Class Piano (2)

Prereq: 243 with minimum grade of C, and 103.

360 Class Piano (2)

Prereq: 359.

361 Class Piano (2)

Prereq: 360.

370 Practicum in Music (1–2, max 12)

Provides practical experiences such as supervised private and/or small group teaching, seminars in instrument repair, small touring ensembles, and pit orchestra performance. May be repeated.

372 Advanced Functional Skills (2)

Prereq: jr in piano. (fall) Instruction to provide greater facility in handling basic functional keyboard skills. Emphasis on transferring these skills to actual situations encountered as music educators and/or music therapists.

375A English Diction for Singers (1)

Stresses using vocal repertoire, correct pronunciation for singing.

375B Italian Diction for Singers (1)

Prereq: ITAL 111. See 375A for description.

375C German Diction for Singers (1)

Prereq: GER 111. See 375A for description.

375D French Diction for Singers (1)

Prereq: FRN 111. See 375A for description.

377A Jazz Improvisation I (2)

Prereq: C or better in 103. *Bastin*. Learning and applying through improvisation the Ionian, Dorian, and Mixolydian modes, the ii-V7-I progression, and culminating with a final project utilizing the song form.

377B Jazz Improvisation II (2)

Prereq: C or better in 377A. *Bastin*. Learning and applying through improvisation the whole tone, diminished and blues scales, the Aeolian and Locrian modes, the ii-V7-I progression, and culminating with a final project utilizing blues form.

Performance Preparation (2)

Assistance in developing strategies for preparing physically and psychologically to achieve maximum potential in musical performance.

450 Accompanying (1, max 3)

Basic problems in accompanying vocalists and instrumentalists—rehearsal techniques, ensemble, pedaling, balance, etc. May be repeated.

455 Basic Conducting (3)

Prereq: 203, 205. *P. Jarjisian, R. Socciarelli*. Basic beat patterns, technique of baton, and use of left hand. Experience in conducting choral and small instrumental ensembles in works suitable for school groups.

456A Instrumental Conducting (3)

Prereq: 205, 455. *K. Furumoto*. Experience in conducting from full score; includes band and orchestral works suitable for high school groups.

456B Choral Conducting (3)

Prereq: 205, 455. *P. Jarjisian*. Specialized conducting techniques for choral groups, including experience in conducting works suitable for high school and college groups.

457A Solo Repertoire of String Instruments (1)

Prereq: 323. Survey of student's major performance instrument literature.

457B Solo Repertoire of Woodwind Instruments (1)

Prereq: 323. See 457A for description.

457C Solo Repertoire of Brass Instruments (1)

Prereq: 323. See 457A for description.

457D Solo Repertoire of Vocal Music (1)

Prereq: 323. See 457A for description.

457E Solo Repertoire of Percussion Instruments (1)

Prereq: 323. See 457A for description.

457G Early Keyboard Repertoire, 1600 through 1750 (2)

Prereq: 125. A comprehensive study of the keyboard repertoire from 1600 through 1750, including major works of Baroque composers.

457K Classical and Romantic Piano Repertoire (2)

Prereq: 125. A comprehensive study of the piano repertoire from 1750 through 1900, including major works of classical and romantic composers.

457L Twentieth Century Piano Repertoire (2)

Prereq: 125. Twentieth century piano repertoire beginning with works from the Impressionistic Period and including major works of composers to the present.

458A String Instrument Pedagogy (2)

Teaching techniques and use of selected materials for various levels of ability. Includes practical experience in teaching string instruments.

458B Woodwind Instrument Pedagogy (2)

See 458A for description—woodwind instruments.

458C Brass Instrument Pedagogy (2)

See 458A for description—brass instruments.

458D Vocal Pedagogy (2)

See 458A for description—voice.

458E Class Piano Pedagogy (2)

M. Stewart. Practical teaching techniques unique to class piano instruction, particularly in electronic lab. Examination of useful materials for various levels of ability. Includes some experience in classroom teaching.

458F Percussion Instruments Pedagogy (2)

See 458A for description—percussion instruments.

458G Piano Pedagogy (2)

(fall) *G. Berenson*. Provides creative teaching strategies for piano teacher. Teaching philosophies, objectives, and procedures discussed and applied to group and private piano instruction. Includes teaching techniques for working with students of all ages and levels.

458H Piano Pedagogy (2)

(winter) *G. Berenson*. Continuation of 458G. See 458G for description.

458I Piano Pedagogy (2)

(spring) *G. Berenson*. Continuation of 458G and 458H. See 458G for description.

459A Instrumental Conducting II (3)

Prereq: 456A. *J. Climer, J. Furumoto*.

459B Choral Conducting II (3)

Prereq: 456B. *P. Jarjisian*.

497 Recital (1–2)**Music Education****160 Music Fundamentals (3)**

For elementary education majors only.

161 Music for the Classroom Teacher (3)

Prereq: 160 with minimum grade of C. Methods of teaching elementary music. For elementary education majors only.

163 Introduction to Music Education (2)

Introduction of major components of music teaching in elementary and secondary schools.

261A Upper Strings Methods and Materials (2)

Prereq: soph in music education/music therapy. Instruction in upper stringed instruments with emphasis on teaching techniques, methods, and materials.

261B Lower Strings Methods and Materials (2)

Prereq: soph in music education/music therapy. Instruction in lower stringed instruments with emphasis on teaching techniques, methods, and materials.

262 Music in Early Childhood (3)

Prereq: 160 with minimum grade of C. Methods and materials for aesthetic development of pre-school children. Exploration of reading readiness and vocal, rhythmic, listening activities.

263A Percussion Methods and Materials (2)

Prereq: soph in music education/music therapy. Instruction in percussion instruments with emphasis on teaching techniques, methods, and materials.

263E Trumpet Methods and Materials (2)

Prereq: soph in music education/music therapy. Instruction in trumpet with emphasis on teaching techniques, methods, and materials.

263F Horn/Trombone Methods and Materials (2)

Prereq: soph in music education/music therapy. Instruction in horn and trombone with emphasis on teaching techniques, methods, and materials.

263G Euphonium/Tuba Methods and Materials (2)

Prereq: soph in music education/music therapy. Instruction in euphonium and tuba with emphasis on teaching techniques, methods, and materials.

263H Flute/Saxophone Methods and Materials (2)

Prereq: soph in music education/music therapy. Instruction in flute and saxophone with emphasis on teaching techniques, methods, and materials.

263I Clarinet Methods and Materials (2)

Prereq: soph in music education/music therapy. Instruction in clarinet with emphasis on teaching techniques, methods, and materials.

263K Double Reed Methods and Materials (2)

Prereq: soph in music education/music therapy. Instruction in double reed instruments with emphasis on teaching techniques, methods, and materials.

362 Teaching Instrumental Music in the Elementary and Middle School (3)

Prereq: jr standing in music education. A study of procedures for planning, implementing, administering, and evaluating instrumental music programs in elementary and middle schools. Also included is a survey of appropriate teaching materials and application of current technology.

362L Teaching Instrumental Music in the Elementary/Middle School—Laboratory Band (1, max 4)

Prereq: jr standing in music education. Prepares the prospective instrumental music educator for competence and adequacy in executing an ensemble music rehearsal at the elementary/middle school level. Items covered include conducting, personnel, and score preparation.

363 Secondary School Instrumental Methods and Materials (3)

Prereq: jr standing in music education. Literature and rehearsal techniques for secondary school bands and orchestras, including administration of the high school instrumental music program.

364 Secondary School Vocal Techniques and Materials (3)

Prereq: jr standing in music education. (spring) Literature and rehearsal techniques for high school choral groups.

366 Teaching of Music in the Elementary Grades (3)

Prereq: jr standing in music education or music therapy. (fall) Materials and methods for elementary music. For music majors only.

366A Introduction to Orff Schulwerk (2)

Introduction to music, materials, instruments, and pedagogy used in Orff teaching.

366B Early Childhood Music Education (3)

Prereq: jr standing in music education. Introduces music majors to the methods and materials for teaching music to preschool children.

464 Marching Band Techniques (2)

Prereq: jr standing in music education. (spring) Techniques for preparation of high school and college marching band performance.

465 Jazz Ensemble Methods (2)

Prereq: jr standing in music education. Methods of organizing and implementing jazz ensemble programs in secondary schools. Includes survey of appropriate materials.

468 General Music in the Junior High School (3)

Prereq: jr standing in music education. (winter) Materials and methods; listening program; changing voice.

Music History and Literature**120 Exploring Musical Styles (3) (2H)**

Prereq: nonmusic major. Development of listening skills for understanding elements of musical style in historical perspective and significance of music as fine art.

124 Language of Rock Music (3)

Examines birth, growth, and development of rock music through its acceptance as art form with significant influence on youth culture and resulting social implications.

125 Introduction to Music History and Literature (4) (2H)

(fall) Survey of musical forms, styles, performance media (including jazz and non-Western) from Gregorian era to present.

150 Viewing Performance (2)

Integrates classroom and student life activities at the University by combining the OU Artist Series and major productions of the Schools of Comparative Arts, Music, Dance, and Theater with a seminar course dealing with characteristics of the medium and artistic concerns. A two-hour seminar precedes and follows each of the performances. No credit to those with credit for CA 150, DANC 150, or THAR 150.

321 History and Literature of Music (3)

Prereq: 103. History of music with survey of musical literature to 1600. No credit to those with credit for CA 321.

322 History and Literature of Music (3)

Prereq: 125. History of music with survey of musical literature, 1600–1750. No credit to those with credit for CA 322.

323 History and Literature of Music (3)

Prereq: 322. History of music with survey of musical literature, 1750 to present. No credit to those with credit for CA 323.

421A Literature of Choral Music (3)**421B Literature of Piano Music (3)****421C Literature of Chamber Music (3)****421D Literature of Orchestral Music (3)****421E Literature of Organ Music (3)****421F Literature of Opera (3)****421G Literature of Band Music (3)****427 Folk Music in the United States (3)**

Introduction to selected types of folk music in U.S.

428 Jazz History (3)

Study of jazz styles to 1970.

Independent Studies in Music**414 Senior Thesis (2)**

Prereq: sr. Preparation of senior project.

498 Independent Project (1–6)**499 Independent Readings in Music (1–12)****Music Theory and Composition****100 Introduction to Music Theory (3) (2H)**

Prereq: nonmusic major. Introduction to staff, pitch, and rhythmic notation, chords, pop music notation, etc.

101 Music Theory I (3)

Prereq: music theory placement exam. Melodic, harmonic, and rhythmic principles of music and its notation. 5 days per wk.

101A Music Theory (3)

Prereq: nonmusic major, ability to read music. Melodic, harmonic, and rhythmic principles of music and its notation.

102 Music Theory II (3)

Prereq: C or better in 101. Continuation of 101. See 101 for description.

102A Music Theory (3)

Prereq: 101A, nonmusic major. Continuation of 101A. See 101A for description.

103 Music Theory III (3)

Prereq: C or better in 102. Continuation of 101 and 102. See 101 for description.

104 Dictation and Sight Singing I (1)

Prereq: music theory placement exam. Acquisition of skills in the aural perception and reading of melodic, harmonic, and rhythmic musical structure. Should be taken concurrently with 101.

105 Dictation and Sight Singing II (1)

Prereq: 104 with a minimum grade of C. Should be taken concurrently with 102. See 104 for description.

106 Dictation and Sight Singing III (1)

Prereq: 105 with a minimum grade of C. Should be taken concurrently with 103. See 104 for description.

178 Computer Skills for Musicians (2)

Provides a basic overview of computer technology and terminology and introduces various software tools specifically for musicians.

178A Computer Skills for Musicians, Nonmajors (2)

See 178 for description.

201 Music Theory IV (3)

Prereq: 103 with a minimum grade of C. Harmonic and contrapuntal practices of 18th, 19th, and 20th centuries, including structural analysis of small and large forms.

202 Music Theory V (3)

Prereq: 201 with a minimum grade of C. Continuation of 201. See 201 for description.

203 Music Theory VI (3)

Prereq: 202 with a minimum grade of C. Continuation of 201 and 202. See 201 for description.

204 Dictation and Sight Singing IV (2)

Prereq: 106 with a minimum grade of C. Should be taken concurrently with 201.

205 Dictation and Sight Singing V (2)

Prereq: 204 with a minimum grade of C. Continuation of 204.

206 Dictation and Sight Singing VI (2)

Prereq: 205 with a minimum grade of C. Continuation of 204 and 205. See 204 for description.

304 Instrumentation (3)

Prereq: 203. (fall) Technical characteristics of instruments of band and orchestra. Arranging for small ensembles.

305 Orchestration I (3)

Prereq: 203, 304. (winter) Scoring for instrumental ensembles with emphasis on intra- and cross-choir scoring. Writing of transcriptions and score reductions.

306 Orchestration II (3)

Prereq: 305. (spring) Continuation of 305. See 305 for description.

307 Choral Arranging (3)

Prereq: 203. Arranging for standard vocal ensembles with and without accompaniment.

308 Composition, Nonmajor (2)

Prereq: Non-composition major; 203, 206. Introduction to 20th-century compositional techniques. Writing smaller compositions.

309 Composition, Major (2)

Prereq: Composition major. See 308 for description.

402A Styles I (3)

Prereq: 203 with minimum grade of C. (offered alternate years) Analysis of Medieval and Renaissance music.

402B Styles II (3)

Prereq: 203 with minimum grade of C. (offered alternate years) Analysis of 19th century music.

402C Styles III (3)

Prereq: 203 with minimum grade of C. (offered alternate years) Analysis of 20th-century music.

405A Jazz Theory I (3)

Prereq: 203, 206, keyboard skills as determined by instructor. Harmonic vocabulary, notational systems, and chord progressions in traditional jazz.

405B Jazz Theory II (3)

Prereq: 405A. Continuation of 405A. See 405A for description.

407A Counterpoint I (3)

Prereq: 203, 205. (offered alternate years) Analysis and composition in sacred style of the 16th century.

407B Counterpoint II (3)

Prereq: 203, 205. (offered alternate years) Analysis and composition of 18th-century contrapuntal forms.

407C Counterpoint III (3)

Prereq: 203, 205. (offered alternate years) Continuation of 407B.

410B Composition (2)

Prereq: 312, electronic comp. only. Original composition in electronic medium for tape alone, live electronic instruments, or conventional instruments with electronic tape.

413 Introduction to Electronic Music (2)

Prereq: 102A, 141A, or music major. History, theories, techniques, and aesthetics of electronic music.

414 Senior Thesis (2)

Prereq: sr. Preparation of senior project.

415 Microcomputer Applications in Music Production (3)

Prereq: 413. Using various MIDI and digital audio applications running on microcomputers to produce a series of small projects in electronic music.

416 Project in Electronic Music (3)

Prereq: 415. Creating a major project using MIDI synthesizers and software and/or digital audio.

416A Advanced Projects in Electronic Music (3)

Prereq: approved project proposal, 416. A project proposal must be submitted to and approved by the instructor prior to enrolling in this course. An electronic music composition will be produced for public performance.

416B Advanced Recording Studio Techniques (4)

Prereq: 416. Instruction in operating a 16-track recording studio. Topics including advanced miking techniques, sound processing, mixing, and SMPTE time code synchronization on a 16-track recorder.

417 Advanced Digital Synthesis (4)

Prereq: 415. Concepts of digital sound synthesis primarily using the Synclavier system. Topics include advanced FM synthesis, additive synthesis, sampling, sequencing, and SMPTE time code synchronization on the Synclavier.

417A Advanced Digital Synthesis and Multitrack Projects (4)

Prereq: approved project proposal, 416B, 417. A project proposal must be submitted to and approved by the instructor prior to enrolling in this course. Supervision and guidance for working on creative electronic projects using the Synclavier and the 16-track recording studio.

Music Therapy**180 Music Therapy Practicum I (1-2)**

Prereq: fr in music therapy. Selected field experience in approved clinical facilities; field evaluation of student.

181 Introduction to Music Therapy (3)

(fall) Introduction to clinical practice of music therapy; observation and field trips.

182 Recreational Music Instruments and Materials (3)

Prereq: music major. (spring) Accompanying instruments and group music activities; special instrumental methods for handicapped.

280 Music Therapy Practicum II (1-3)

Prereq: soph in music therapy. Selected field experiences in approved clinical facilities; field evaluation of student.

281 Observation, Evaluation, and Research in Music Therapy (3)

Prereq: soph. (spring) Observation and evaluation skill development through classroom videotape, and field data collection and analysis; tests and evaluations; research methods and their application to clinical investigations. 2 lec, 1 lab.

282 Music Therapy Activities for Classroom and Clinic (3)

Prereq: soph. (winter) Development of skills in treatment planning and application including activity design and analysis for problems in all clinical areas.

380 Music Therapy Practicum III (1-3)

Prereq: jr standing in music therapy. Selected field experiences in approved clinical facilities; field evaluation of student.

381 Psychological Foundations of Music (3)

Prereq: jr standing in music therapy/music education. Basic study of acoustics, ear and hearing, and psycho-socio-physiological process involved in music behavior.

382 Psychological Foundations of Music II (3)

Prereq: 381. Historical review, theory of music therapy, survey of current literature and trends in music therapy; influence of music on behavior, physiology, emotions, learning, and work performance.

480 Music Therapy Practicum IV (1-3)

Prereq: sr standing in music therapy. Selected field experience in approved clinical facilities; field evaluation of student.

481 Music Therapy Principles and Techniques I (3)

Prereq: jr standing in music therapy. Problems of exceptional children and therapist strategies and techniques for remediation; terminology; treatment settings; other activity therapy approaches and techniques.

482 Music Therapy Principles and Techniques II (3)

Prereq: 481. Problems in psychiatry and rehabilitation and therapist strategies and techniques for remediation; terminology; treatment settings; traditional and current psycho-therapeutic and behavioral approaches; other activity therapy techniques and approaches.

483 Music Therapy Principles and Techniques III (3)

Prereq: 482. Program development process for selected clinical populations; administration of music therapy program.

489 Clinical Training in Music Therapy (1)

Prereq: 483. Six months as full-time music therapy intern at AMTA-approved clinical training facility following completion of sr yr.

Nursing**Associate's Degree Program (NURS)**

The following courses for the A.A.S. in nursing are available on the Chillicothe and Zanesville campuses.

110 Foundations of Nursing I (4)

Prereq: admission to AD nursing program. Designed to introduce the beginning nursing student to the concepts that form the foundation of associate degree nursing. Students are introduced to nursing as a caring profession. Opportunities will be provided for the student, as a beginning nursing care provider, to develop skills in critical thinking through the application of the nursing process and in the implementation of selected nursing techniques. Emphasis will be placed on the three roles of the AD nurse as they relate to the nursing care of the adult.

111 Foundations of Nursing II (4)

Prereq: C or better in 110, 115, 120, 130; BIOS 130; CHEM 121. Continuation of 110 with increased emphasis on integrating the concepts of caring, critical thinking, and the three roles of the AD nurse. The nursing process continues to be the framework for assisting clients throughout the lifespan.

115 Communication in Nursing (1)

Prereq: admission to AD nursing program. Explores the concepts of effective communication and the application of the teaching/learning process with clients across the lifespan. A caring therapeutic nurse/patient relationship depends upon effective communication. As a teacher, the nurse addresses the nursing roles of communicator, direct patient care provider, and manager of clients with safety, physiological, psychosocial, or health promotion/learning needs. Critical thinking skills and effective communication are required by the nurse to successfully meet the learning needs of the client.

120 Assessment of the Middle and Older Adult (2)

Prereq: admission to AD nursing program. Focuses on the assessment of environmental safety, level of physiological and psychosocial integrity, and health promotion and maintenance practices of middle to older adult. Nursing process is introduced as a cornerstone of professional nursing practice. Nursing assessment is emphasized through the direct care role. The components of assessment include a deliberate and systematic collection, validation, and patterns of identification of data from a variety of sources. Critical thinking and caring are essential for effective nursing assessment. Assessment activities will occur in simulated settings.

121 Assessment of the Neonate through Young Adult (2)

Prereq: C or better in 110, 115, 120, 130; BIOS 130; CHEM 121. Focuses on the assessment of environmental safety, level of physiological and psychosocial integrity, and health promotion and maintenance practices of the neonate through younger adult. Nursing process is introduced as a cornerstone of professional nursing practice. Nursing assessment is emphasized through the direct care role. The components of assessment include a deliberate and systematic collection, validation, and patterns of identification of data from a variety of sources. Critical thinking and caring are essential for effective nursing assessment. Assessment activities will occur in simulated settings.

130 Pharmacology in Nursing I (1)

Prereq: admission to AD nursing program. Assists the student in making sound nursing judgments associated with medication therapy. Basic principles of drug administration are taught to enable the student to think critically and to administer medications in a safe and caring manner. Emphasis is on nursing implications of common drug therapy to adult populations. The student will learn to administer non-parenteral medication with concern for safety, precision, and attention to important physiological factors. Simulations will occur in the campus laboratory.

131 Pharmacology in Nursing II (2)

Prereq: C or better in 110, 115, 120, 130; BIOS 130; CHEM 121. Builds on 130. Students will learn the injectable methods of drug administration. Emphasis is on nursing implications of drug administration across the life span. Simulations will occur in the campus laboratory.

132 Pharmacology in Nursing III (2)

Prereq: C or better in 111, 121, 131; BIOS 131; HCFN 128. Enables the student to make sound nursing judgments associated with medication therapy across the lifespan. Principles of initiating and delivering medications by the IV route are taught. Advanced topics to be covered are care of clients with central lines, administration of blood products, TPN, and chemotherapy. Simulations will occur in the campus laboratory.

210 Health Alterations I (7)

Prereq: C or better in 111, 121, 131; BIOS 131; HCFN 128. Focuses on nursing care related to acute and chronic alterations in the physiological needs of nutrition, fluid balance, elimination, oxygenation transport, and regulation. The student will learn to function as a member within the discipline of nursing, as a provider of care, and as a manager of care for adults. Emphasis will be placed on establishing a caring relationship between the client, family, and nurse. The nurse will use critical thinking skills to promote health and well-being.

211 Health Alterations II (7)

Prereq: C or better in 210, 132; MICR 201. Focuses on nursing care related to acute and chronic alterations in the physiological needs of oxygenation perfusion and ventilation. The student will continue to develop as a member within the discipline of nursing, and as a provider and manager of care for adults. Emphasis will be placed on establishing a caring relationship between the client, family, and nurse. The nurse will use critical thinking skills to promote health and well-being.

212 Health Alterations III (7)

Prereq: C or better in 211; PSY 101. Focuses on nursing care related to acute and chronic alterations in the physiological needs of movement, coordination, cognition, sensory function, and immunity. The student will refine responsibilities while functioning as a member of the discipline, provider, and manager of care for adults. Emphasis will be placed on establishing a caring relationship between the client, family, and nurse. The nurse will use critical thinking skills to promote health and well-being.

220 Maternal, Newborn, and Women's Health Alterations (5)

Prereq: C or better in 111, 121, 131; BIOS 131; HCFN 128. Emphasizes the use of critical thinking and caring as a foundation for the AD nurse in delivering care to the childbearing client and to women with alterations in reproductive health. The student will function as a member within the discipline of nursing as a provider/manager of care and promoter of health and well-being.

230 Mental Health Alterations (5)

Prereq: C or better in 111, 121, 131; BIOS 131; HCFN 128. Focuses on the roles of the AD nurse as a member within the discipline of nursing and as a provider and manager of care for children, adolescents, and adults with mental and emotional problems. Emphasis will be placed on establishing a therapeutic relationship to assist individuals and families to achieve adaptation, recovery, and growth by working through alterations in psychosocial needs. The nurse will use critical thinking skills to promote mental health.

240 Child and Adolescent Health Alterations (5)

Prereq: C or better in 111, 121, 131; BIOS 131; HCFN 128. Focuses on the roles of the AD nurse as a member within the discipline of nursing, provider of care, and manager of care in providing care for infants, children, and adolescents with health alterations. Emphasis will be placed on establishing a caring relationship between the child, family, and nurse. The nurse will use collaboration, communication, and critical thinking skills to promote health and well-being.

250 Independent Study (1-5, max 5)

Prereq: perm. Research, readings, and clinical observations in selected areas of nursing under direction of faculty member.

260 Transition to Nursing Practice (10)

Prereq: C or better in 212, 220, 230, 240; SOC 101. Focuses on facilitating a transition to entry-level nursing. This capstone course further refines critical thinking, caring of self and others, and the roles of the nurse in providing care across the lifespan. Topics such as client care environment, managing client, managing others, and professional development will be included.

290A-Z Current Issues in Nursing (1-5, max 15)

Prereq: perm. Series of elective short courses for nursing students at OU-Zanesville. RNs and allied health professionals from the local area may enroll.

291A-D Current Issues in Nursing (1-5, max 5)

Prereq: perm. See 290A-Z for description.

Baccalaureate Program for RNs (NRSE)**295 Introduction to Baccalaureate Nursing Education (1)**

Prereq: B.S.N. major. The philosophy, conceptual framework, and curriculum of the Ohio University School of Nursing. Technical and professional levels of nursing education compared. 1 lec.

300 Transitions in Nursing (4)

Prereq: B.S.N. major or school nurse. Focus on issues related to transition from technical to professional nursing. History and development of nursing as a profession; professional practice and the nursing process; nursing theories; nursing research; general systems theory; role theory; Ohio University's School of Nursing's philosophy and conceptual framework. 4 lec.

303 Health and Safety in Early Childhood (3)

Prereq: HLTH 228 or PE55 228. Health and safety knowledge and skills needed in working with children under the age of five years. Includes communicable disease, first aid, environmental safety, and child abuse content. 2.5 lec, 1 lab.

310 Health Appraisal I (4)

Focus on developing cephalocaudal nursing assessment skills and the ability to draw valid inferences from the data collected. 3 lec, 3 lab.

315 Pain Management for Nursing (4)

Prereq: Ohio RN. Assists RNs in moving from historical perspective of pain management to current concepts underlying the pathophysiology and treatment of pain. Pharmacological and nonpharmacological approaches to acute and chronic pain management addressed from holistic client and family perspectives. 4 lec.

321 Health Promotion in Professional Nursing (2)

Health promotion of individuals across the life span. Assessment of various dimensions of health in individuals using the nursing process. 2 lec.

322 Teaching and Learning in Professional Nursing (2)

Teaching and learning principles, theories, and instructional strategies in nursing and health care. 2 lec.

323 Counseling in Professional Nursing (2)

Counseling assumptions, frameworks, and strategies, and their relationship to the practice of nursing. 2 lec.

330A Family Nursing (2)

Prereq: 300, 321, 322 or concurrent, 323 or concurrent; 330C concurrent. Focus on nursing care of family system throughout the life cycle. Synthesis of family theory and application of the nursing process to family cases. 2 lec.

330C Family Nursing: Clinical (2)

Prereq: 330A concurrent, Ohio RN. Application of nursing care of the family as a system. 4 lab.

335 Ethical and Legal Issues in Nursing (4)

Analysis of the relationships between ethics and the law with close attention given to the issues and decisions that impact professional nursing practice. 4 lec.

340A Community Health Nursing (2)

Prereq: 330A, 330C; 340C concurrent. Focus on nursing care of aggregate systems within a community. Topics include community health nursing roles and basic concepts of community health. Nursing process, collaboration, interdisciplinary skills used in working with clients from diverse population groups. 2 lec.

340C Community Health Nursing: Clinical (2)

Prereq: 340A concurrent, Ohio RN. Discussion and application of health promotion and disease prevention in populations. Nursing process, collaboration, interpersonal skills, and multidisciplinary approaches in implementing population focused care. 5 lab.

405 Research: Critique and Methodology (4)

Prereq: 340A or concurrent. Research in nursing practice. Topics include interrelationships among theory, practice and research; theory and science in nursing; nursing practice models; steps in the research process; critiquing of current research; development of a research proposal. 4 lec.

415 Restorative Nursing (4)

Prereq: 405 or concurrent. Nursing care of individuals, families, and groups experiencing alterations in health and the responses to those changes throughout the life cycle. Concepts addressed include loss, pain, crisis, coping, quality of life. Selected professional roles practiced in primary, secondary, and tertiary health care settings. 4 lec.

416 Management Issues in Nursing (4)

Nursing management through use of a systems approach. Leadership models and behavior at various organizational levels discussed. Critical management strategies introduced. 4 lec.

425 Clinical Applications in Nursing (4)

Prereq: 415. Examination of selected nursing situations and independent clinical professional nursing roles. 3 lec, 3 lab.

445 Strategic Planning in Nursing Care (4)

Prereq: 405 or concurrent. Application of strategic planning concepts to professional nursing practice. Topics addressed are assessment of organizational system and implications for change; accountability and quality assurance; power and influence. Active involvement as change agent and implementation of planned change project. Clinical experience in a variety of settings. 3 lec, 3 lab.

455 Excellence in Nursing (4)

Prereq: 425 or concurrent, 445 or concurrent, last qtr of major. Synthesis course designed to enhance student's knowledge of professional nursing. Past and present issues and trends in nursing examined. Emerging trends and futuristic nursing studied. Content will vary depending upon student needs and interests as well as events occurring in discipline of nursing. 4 lec.

490 Independent Study (1-5)

Prereq: perm. Student chooses a topic of specific interest with the assistance of a faculty member.

491 Current Topics (1-5)

Prereq: Ohio RN licensure.

491A Clinical Application of Teaching (1-3)**491B Gerontic Nursing (1-3)****491C Critical Care Nursing (1-3)****Office Technology (OTEC)**

The following courses for the A.A.B. in office technology are available on the Chillicothe, Lancaster, and Southern campuses. Some elective courses are unique to a particular campus. Under University College, see the Colleges and Curricula section for the list of required courses.

121 Keyboarding I (4)

Introduction to touch keyboarding system with emphasis on correct techniques, mastery of keyboard, typical business correspondence, tabulation, and reports.

122 Keyboarding II (4)

Prereq: 121. Emphasis on formatting problems and keyboarding speed building. Production work involves tabulations, reports, correspondence, and business forms.

123 Keyboarding III (4)

Prereq: 122. Advanced keyboarding problems, techniques, knowledge, and skills involved in production keyboarding work using computers. Designed to acquire maximum in production.

130 Business Communication I (3-4)

Basic English grammar review with emphasis on word usage, sentence structure, paragraph development, capitalization, and punctuation for more effective business writing.

141L Legal Terminology (2)

Prereq: 121. Intensive course of study in legal terminology and vocabulary including definitions, usage, derivations, and spelling.

141M Medical Terminology (2)

Prereq: 121. Structure of medical words and terms. Emphasis on spelling and defining commonly used prefixes, suffixes, root words, and their combining forms.

171 Administrative Procedures I (3-4)

Prereq: 121. Enhancement of skills as they relate to the world of work.

171L Legal Support and Procedures I (3)

Prereq: 121. Enhancement of skills as they relate to the world of legal work.

171M Medical Support and Procedures I (3)

Prereq: 121. Enhancement of skills as they relate to the world of medical work.

172 Administrative Procedures II (4)

Prereq: 171. Continuation of 171. Instruction in current office practices as well as critical thinking and problem solving skills, including business protocol, professional development, telecommunications, and experiences in general office work expectations.

172L Legal Support and Procedures II (3)

Prereq: 171L. Emphasizes machine transcription utilizing complete production units concerning legal correspondence and documents.

172M Medical Support and Procedures II (3)

Prereq: 171M. Emphasizes machine transcription utilizing complete production units concerning medical correspondence and documents, such as case histories, articles, and hospital reports.

189 Independent Study (1-5, max 5)

Prereq: perm. Studies in selected subject areas related to office technology field. May be repeated up to 5 credit hours.

200 Desktop Publishing I (3)

Prereq: 121 recommended. Develops skill in using desktop publishing software. Covers publishing information, graphic design basics, and will prepare students to produce newsletters, brochures, catalogs, etc., that are of professional quality.

201 Desktop Publishing II (3)

Prereq: 200. Continuation of 200. Advanced applications using desktop publishing.

221 Dictation/Transcription (4)

Prereq: 121 and 130. Development of machine transcription skills for taped dictation.

225 Communication Processing I (3-4)

Prereq: 121 or concurrent. Introduction to professional communication processing. Emphasis will vary by campus.

226 Communication Processing II (3-4)

Prereq: 225. Continuation of 225. Emphasizes advanced applications.

227 Communication Processing III (3)

Prereq: 226. Designed to introduce students to a variety of software—including integrated hardware and software evaluation processes—using the microcomputer.

230 Business Communication II (4)

Prereq: 130 or ENG 150 or higher placement. Extensive and detailed practice in written communication for business, industry, and professions. Involves composition of letters, memoranda, and reports.

231 Business Calculations (4)

Prereq: MATH 101, 102, or higher placement. Practical mathematical calculations typical of a business situation. Concentration on problem-solving techniques necessary to perform calculations accurately and efficiently.

248 Administration of Record Systems (3)

Controlling cost and improving effectiveness of records and information management within business enterprises. Includes control of record creation, maintenance, and disposition through systems analysis; forms management, protection methods.

258 Stress Management for Office Personnel (3)

Involves recognition of stress, how to handle stress within yourself, how to assist office personnel in dealing with stress, and implications of time in its relationship to stress.

267 Office Supervision (4)

Prereq: 122, 172. Involves principles and practices of management of flow of information within enterprise. Includes basic management functions of planning, controlling, organizing, and coordinating as applied to office services, physical facilities, systems and procedures, work measurement and standards, and business information systems. Emphasis on matters of personnel.

268 Information System Design (3)

Effective use of management techniques and equipment in meeting informational needs of business and industry. How to design optional system utilizing feasibility studies, etc., and how to implement design.

288 Information System Equipment Selection—Acquisition Seminar (2)

Remodeling or designing new facilities, including space management, as well as source, cost, and justification for special equipment and furniture. Use of consultants and feasibility studies reviewed.

290 Seminar (1-4, max 6)

Prereq: concurrent with 299 or perm. Special topics and problems encountered in field experience discussed. Opportunity to share ideas and experiences and to find possible answers to questions arising in actual working situations.

291 Special Topics (1-5, max 10)

Prereq: perm. Projects concerning office technology field explored on one-to-one basis with instructor.

298 Practicum in W/P Supervision (2)

Experiences in supervision of word/data processing labs or centers. Responsibilities include assisting W/P trainees, demonstrating equipment to classes/visitors, producing complex documents, designing forms, and learning/developing new systems.

299 Internship (1-5, max 10)

Prereq: 225 and perm. Practical field experience or in-class office simulation.

Ohio Program of Intensive English (OPIE)

Credit hours listed for OPIE are not applicable to degree requirements. For English for nonnative speakers applicable to degree requirements, see ENG 150A, 151A in English under ENG 150, 151.

35 American English (1-15)

Semi-intensive or full-time classes in English as a second language arranged on an individual tutorial or class basis (if enrollment permits, as in the case of special or sponsored groups). Instruction in beginning listening and speaking skills along with appropriate communicative responses, with out-of-class exposure to native speakers in the form of field trips and daily situational encounters. Appropriate phrases and structures for daily use are introduced along with the basic cultural elements that make beginning communication possible. Students are familiarized with the basics of the English alphabet and handwriting. Beginning level sentence patterns are introduced as well as the rudiments of English punctuation. Basic English literacy skills are introduced with materials appropriate for adult learners.

40 American English (15)

Prereq: average TOEFL 350-399, placement test 45-50, composition test <25. Full-time study of English as second language for students at the elementary level whose ultimate aim is academic study. Twenty hours of classroom instruction are augmented with structured and independent use of listening, reading, and computer labs. Focus is on American English for effective communication both inside and outside the classroom. While grammatical structures and interactional listening and speaking skills are emphasized, reading and writing are gradually introduced along with study skills. Normally followed by 45.

45 Academic English (15)

Prereq: average TOEFL 400-450, placement test 51-65, composition test 25-34. *Students at this level do not take academic courses.* Full-time study of English as a second language for students aiming at academic study. Twenty hours of classroom instruction each week reinforced with access to listening, reading, and computer labs. Students develop fluency and accuracy in oral skills and pronunciation with focus on transactional activities and extended discourse. Paragraph-level writing competency is developed as students expand grammatical knowledge, explore the process of writing, and write longer pieces of text. Reading comprehension and vocabulary acquire greater emphasis with more attention to academic vocabulary and text organization. May follow 40.

50 Academic English (15)

Prereq: average TOEFL 450-500, placement test 65-70, composition test 35-44. *Students at this level do not take academic courses.* Full-time intensive study of English as a second language for students planning on academic study in an American university. Twenty hours of classroom instruction each week reinforced with access to listening, reading, and computer labs. Students incorporate understanding of grammatical structures, appropriate vocabulary, and organization into formally developed essays. More emphasis is placed on rhetorical modes and developing editing skills. Reading comprehension and lexical skill development are emphasized along with improvement of reading rate. Students learn to synthesize the various skills and strategies to which they have been exposed. Listening and speaking skill activities rely more heavily on academic task simulation and university-level expectations. Normally follows 45.

55 Academic English (12)

Prereq: average TOEFL above 500–525, composition test 45–50, or teacher recommendations. Part-time support courses in English as a second language for students permitted to take one academic course. Three hours of classroom instruction four days a week (normally a single two-hour course plus a third hour in the student's least developed skill area) with access to listening, reading, and computer labs. Students improve language skills as well as academic performance skills and study skills. Language focus is on reading and writing with additional work in academically related listening and speaking. Students may complete OPIE at this level or qualify for a higher part-time level.

60 Academic English (8)

Prereq: average TOEFL above 525–550, composition test 51–55 for undergraduate and low-language demand graduate students or 51–59 for high-language demand graduate students, or teacher recommendations. Part-time support course or courses in English as a second language for students permitted to take two academic courses. Two hours of classroom instruction four days a week (normally a single two-hour course) with access to listening, reading, and computer labs. Students continue high-level language skill development as well as academic performance skills and study skills. Language focus is on reading and writing with additional work in academically related listening and speaking. Students may complete OPIE at this level or qualify for a higher part-time level.

99 Special Studies in English as a Foreign/Second Language (1–10)

Provides independent or special study programs for degree or nondegree international students on campus. May include language improvement, American culture, or training programs.

Operations (OPN)**198 Internship (1)**

Prereq: Perm. Internship experience that provides on-site exposure to general business operations and procedures. Intended for experiences following the freshman year.

310 Principles of Operations (4)

Prereq: QBA 201 or PSY 221 or ECON 381 or INCO 301 or GEOG 271 or MATH 251. More than any other function, operations provides an organization with the capability to compete successfully in the global marketplace. With proper operations management, the firm can provide a product or service of higher quality in less time and at less cost than the competition. Emphasis on conceptual understanding of the operations function and includes the following topics: product/process selection and design, facility location and layout, capacity, material and inventory management, quality, etc.

330 Design in Operation Process (4)

Prereq: 310. Examines various types of manufacturing processes (job shop, batch flow, line flow, continuous flow, hybrid) and service processes (service shop, service factory, mass service, and professional service) and how well each is able to support the various competitive priorities linked with operations. The concept of manufacturing focus and new approaches (e.g., flexible manufacturing systems and cellular manufacturing) that attempt to broaden competitive capabilities of manufacturing systems covered. Real world insights provided through videotapes and facility tours.

340 Managing Quality (4)

Prereq: 310. Covers quality concepts which apply to any method of implementation; quality planning, prevention and cause, and corrective action. Specific methods of implementation. Total Quality Management receives the lion's share of the quarter, but other concepts such as zero defects and quality circles are also presented.

398 Internship (1–4)

Prereq: perm. Internship experience that provides opportunities to learn by participating in day-to-day activities of a business concern for at least four consecutive weeks. Intended for experience following the sophomore year.

410 Logistics in Operations (4)

Prereq: 310. Based on the broad view of logistics, namely all operations along the commercial chain, from raw materials purchasing, to delivery, to the final customer. Topics include purchasing, warehousing, forecasting, staffing, aggregate planning, master production planning, production activity control, MRP, and MRP II.

420 Problems and Models in Operations (4)

Prereq: 310. Provides students with an appreciation for the potential of analytical models to offer insight and guidance in problems faced by operations managers. Emphasis on examining a number of specific problems, developing an appropriate model, examining the model solution, and assessing the potential for implementation. All solutions computer generated. Methods examined to the extent needed to allow informed interpretation of results.

430 Operations Strategy (4)

Prereq: 310. Deals with such major strategic issues as technological change, vertical integration, and facilities configuration. Focuses on the role and responsibilities of senior executives. Topics covered include defining the mission of operations; operating policy formulation and implementation; technological, economic, and human constraints on the design and management of operating systems. New process technologies such as cellular manufacturing, synchronized manufacturing, flexible manufacturing systems, optimized production technology (OPT), computer integrated manufacturing (CIM), and CAD/CAM examined. Covers contemporary issues such as just-in-time, concurrent engineering, time-based competition, and organization.

440 Managing Operations (4)

Prereq: 310. Considers operations from the management perspective. The operations function's role in firm competitiveness discussed. Micro-management skills necessary for operations managers such as communication, negotiations, community, customer and vendor relations, dealing with union and non-union workplaces, leadership and motivation, and task force management covered.

497 Independent Research (1–4)

Prereq: written proposal and perm. Independent research. Course content determined by professor and student.

498 Internship (1–4)

Prereq: perm.

Philosophy (PHIL)**101 Fundamentals of Philosophy (5) (2H)**

Survey of selected basic problems, concepts, and methods in philosophy.

120 Principles of Reasoning (4) (1M)

Basic concepts of logic and techniques for judging validity of arguments introduced. System for symbolizing arguments and deriving conclusions from premises employed. Some of following topics also covered: informal fallacies in reasoning, syllogistic or Aristotelian logic; Venn diagrams, truth tables. Most sections are traditional lecture/test format, some taught in computer-assisted format, others use self-paced approach.

130 Introduction to Ethics (4) (2H)

Discussion of classic and/or modern philosophical views of human values, ideals, and morality. Provides introductory survey of some main problems, concepts, and results of ethics including selected philosophers of past and present.

160 Introduction to Religion (5) (2H)

Definition of religion and analysis of its various aspects including ritual, social, experiential, and symbolic.

216 Philosophy of Science Survey (3) (2H)

Nontechnical survey of types, testing, and credibility of hypotheses; methods of experimental inquiry; measurement; laws, theories and their role in explanation, concept formation.

231 Philosophy of Sport (4)

Prereq: soph. Philosophical exploration into nature, meaning, purposes, values, and ideals of sport. Topics include goods and evils of competition, nature of sports experience, winning and losing, aesthetic and ethical dimensions of sport, ultimate athlete, scholastic athletics, philosophy of physical education, concept of sportsmanship, etc.

232 Philosophy of Art (3) (2H)

Conceptual analysis of common assumptions, attitudes, theories, and ideas about arts, their criticism, and appreciation.

235 Business Ethics (3)

Prereq: soph. Examination of moral reasoning as it pertains to institutions and practices of contemporary business. First half is devoted to basic ethical concepts and analysis of basis for acceptable ethical theory, investigation of role of government and society in their relationship to business, and value assumptions behind competing social and political systems business personnel encounter in today's global marketplace. Second half examines specific case studies.

240 Social and Political Philosophy (4) (2H)

Introduction to major philosophical theories concerning nature of social and political communities including those offered by Plato, Aquinas, Hobbes, Locke, Mill, and Rawls. Consideration of some significant specialized problems in social and political theory including distributive justice, civil disobedience, liberty, punishment, etc.

250 Philosophy of Mind (4)

Mind-body problem; concept of self; human-machine relation; problem of other minds.

260 Philosophy of Religion (4) (2H)

Problems in nature of religion, existence and nature of God; problem of evil, immortality, and religious language.

297T Philosophy Tutorial (1–10)

Prereq: Honors Tutorial College students only. (fall) 1st-yr tutorial studies in philosophy.

298T Philosophy Tutorial (1–10)

Prereq: Honors Tutorial College students only. (winter) 1st-yr tutorial studies in philosophy.

299T Philosophy Tutorial (1-10)

Prereq: Honors Tutorial College students only. (spring) 1st-yr tutorial studies in philosophy.

310 History of Western Philosophy: Ancient (5) (2H)

Significant ideas of representative Greek and Roman philosophers.

311 History of Western Philosophy: Medieval and Renaissance (5) (2H)

Augustine to Bruno and Campanella.

312 History of Western Philosophy: Modern (5) (2H)

Descartes to Hume and Kant.

314 19th Century European Philosophy (4)

Subjects selected from French, German, and British philosophers of 19th century.

320 Symbolic Logic I (4)

Techniques of modern symbolic logic.

330 Ethics (4)

Study focusing on specific philosopher, or one type of ethical or value theory.

331 Moral Problems in Medicine (5)

Prereq: soph. Philosophical investigation of complex moral problems engendered by modern medicine, e.g., death with dignity, human experimentation, allocation of scarce medical resources, birth defects, killing or letting die, informed consent, etc. Basic philosophical concepts underlying these problems explored, including autonomy, coercion, normality, naturalness, rights, justice, responsibility, personhood, etc.

332 Philosophy of Sex and Love (4)

Prereq: jr. Philosophical and evaluative investigation into subject of sexual love and Western morality. Topics include roles and relations between sexes, abortion, monogamy, sexual perversion, homosexuality, promiscuity, adultery, semantics of sex, etc.

333 Philosophy of Literature (4)

Prereq: jr. Examines nature of fictional literature as differentiated from other types of writing. Explores philosophical ideas within specific works of fiction, concentrating on problems of translating philosophical content into literary form, interpretation, belief, truth, and artistic integrity.

350 Philosophy of Culture (5)

Philosophical studies of humankind as culture-creating being.

351 Philosophy of Language (4)

Prereq: 6 hrs in philosophy, including 120 or 320. Theories of meaning and reference and their philosophical significance, relations of meaning to verification and truth, and relationship between language and concepts.

358 Existentialism (4)

Prereq: 9 hrs in philosophy. Existential thought from Kierkegaard to Camus stressing such themes as freedom, existence, despair, authenticity, alienation, death, and revolt against system.

360J Writing About Religion (4) (1J)

Prereq: first year comp, 160, jr, or perm. Study of vocabulary and communication problems in written description and analysis of religious phenomena. Writing projects in various styles, from reports of personal experience to scholarly research.

361 Old Testament (5) (2H)

Background and development of Old Testament; its philosophical, moral, and religious significance.

362 New Testament (5) (2H)

Background and development of New Testament; philosophical, moral, and religious significance of beliefs of Jesus, Paul, and early Church.

370 Hinduism (4) (2C)

Vedic religion, Hinduism, Jainism.

371 Buddhism (4) (2C)

Introduction to doctrines, origins, and varieties.

372 Islam (4) (2C)

Introduction to basic ideas, history, and background.

373 American Religions (4)

Prereq: jr. (on demand) Christianity, Judaism, and other religions and developments in U.S.

374 Taoism (5)

Prereq: jr or perm. A historical survey of philosophical and religious Taoism from the 3rd century B.C. to the 18th century.

397T Philosophy Tutorial (1-10)

Prereq: Honors Tutorial college students only. (fall) 2nd-yr tutorial studies in philosophy.

398T Philosophy Tutorial (1-10)

Prereq: Honors Tutorial college students only. (winter) 2nd-yr tutorial studies in philosophy.

399T Philosophy Tutorial (1-10)

Prereq: Honors Tutorial college students only. (spring) 2nd-yr tutorial studies in philosophy.

412 Philosophy of Biology (5)

Prereq: BIOS 172 or PBJO 111. An analysis of such issues as the structure of theory in biology, whether biology differs from other sciences; whether species exist, natural selection, how taxonomy should be done, and whether biology raises any ethical issues.

413 Philosophy and Freudian Analysis (5)

Prereq: PSY 332 or 333. The philosophical and scientific presuppositions of Freudian psychology (including Freud's methodology) will be identified and subjected to rigorous philosophical analysis. Freud's early thought on hysteria, dreams, sexuality, and psychoanalysis will be emphasized. Recent attacks on the legitimacy of psychoanalysis will be examined. Alternative schemes for understanding human behavior will also be discussed.

414 Analytic Philosophy (5)

Prereq: 4 philosophy courses. Selected topics in contemporary Anglo-American philosophy.

416 Philosophy of Science (4)

Prereq: 216 and 320. Selected problems in logic and methodology of sciences.

417 Philosophy of Logic (4)

Prereq: 320 or 502. Provides a survey of issues in the philosophy of logic. Topics include formal theories of truth, logical and semantical paradoxes, modal logic, conditionals, interpretations of quantifiers, and philosophical implications of Godel's incompleteness theorems.

418 Plato (5)

Prereq: 4 philosophy courses, including 310.

419 Aristotle (5)

Prereq: 4 philosophy courses, including 310.

420 Symbolic Logic II (4)

Prereq: 320 or 502 or MATH 306 (or equiv.) or CS 300. Continuation of 320. Focuses on Godel's completeness and incompleteness theorems for first- and second-order logic, and the Church-Turing theorem on the undecidability of first order logic.

425 Philosophical Problems in Quantum Physics (4)

Prereq: 3 courses from PHIL, PHYS, CHEM, MATH, CS, or engineering. Interpretation and paradoxes of quantum theory. Topics include the problem of measurement, the Bohr-Einstein debates, Schrodinger's cat paradox, the Einstein-Podolsky-Rosen paradox, and Bell's Theorem and its implications.

426 Philosophy of Space and Time (4)

Prereq: 3 courses from PHIL, PHYS, CHEM, MATH, CS, or engineering. Issues in philosophy of space and time that have been greatly influenced by emergence of the special and general theories of relativity. Discussion topics include epistemology of geometry and absolute vs. relational theories of space, time, and space-time. Contemporary and classical thinkers will be examined.

427 Philosophy of Mathematics (4)

Prereq: 3 courses from PHIL, PHYS, CHEM, MATH, CS, or engineering. An in-depth examination of a major work in the philosophy of mathematics or of a particular concept that plays a central role in mathematical philosophy, such as the concept of number, the concept of mathematical proof, and the concept of the mathematical infinite.

428 Continental Rationalism (5)

Prereq: 4 philosophy courses, including 312. (alternate yrs) Descartes, Spinoza, Leibniz.

429 British Empiricism (5)

Prereq: 4 philosophy courses, including 312. (alternate yrs) Locke, Berkeley, Hume.

430 Contemporary Ethical Theory (5)

Prereq: 4 philosophy courses, including 130, 240, 330, or 442. Significant current literature in selected topics of moral, social, political, and legal philosophy.

431 History of Aesthetic Theory (5)

Prereq: 4 philosophy courses. Readings from Plato to Dewey and relation of these theories to selected arts and recent criticism.

432 Problems in Aesthetics (5)

Prereq: 9 hrs philosophy, literature, or art. A variety of philosophical issues surrounding the arts and aesthetics drawn from contemporary sources will be discussed. Topics include the nature of art, expression, interpretation, evaluation, and art and knowledge.

438 Kant (5)

Prereq: 4 philosophy courses, including 312. Kant's Critique of Pure Reason with attention given to his ethical theory.

440 Contemporary Social Philosophy (5)

Prereq: 330 or 240 or 442 and 3 other philosophy courses. Consideration of any number of various issues in contemporary, social, political, and legal philosophy. Possible topics: theories of distributive justice, culpability, causality and responsibility, legal and moral rights, etc.

442 Philosophy of Law (5)

Prereq: 3 philosophy courses or perm. Consideration of nature and justification of law and examination of some specialized topics in philosophy of law, including ascription of responsibility, civil disobedience, theories of punishment, liberty, etc.

444 Philosophy of Marxism (5)

Prereq: 4 philosophy courses. Philosophical inquiry into classical and contemporary Marxist thought stressing Marx, Engels, Lenin, Stalin, Mao, and several contemporary Marxists such as Praxis group of Yugoslavia.

448 Pragmatism (5)

Prereq: 4 philosophy courses. Peirce, James, Dewey, and other American thinkers.

450 Theory of Knowledge (5)

Prereq: 4 philosophy courses, including 312. Critical examination of various views of what knowledge is and how it is attained.

451 Metaphysics (5)

Prereq: 4 philosophy courses, including 310 or 312. Discussion of basic philosophical issues such as: conceptual schemes and the external world, causation, universals, determinism and freedom, the nature of the mind, etc..

452 Myth and Symbolism (5)

Prereq: 4 philosophy courses. Characteristic expressions of thought in primitive societies and theories concerning primitive mentality.

458 Contemporary European Philosophy (5)

Prereq: 4 philosophy courses, including 358 and 468. Phenomenology and existentialism as seen in Husserl, Heidegger, Scheler, Hartman, Dilthey, Cassirer, Gebser, Ingarden, Sartre, Camus, Marcel, Merleau-Ponty, and Ricoeur.

460 Contemporary Religious Thought (5)

Prereq: 4 philosophy courses. Representative thinkers such as Tillich, Buber, and others.

468 Phenomenology (5)

Prereq: 4 philosophy courses, including 312. Method and philosophy of phenomenological movement from Husserl to Merleau-Ponty.

475 Chinese Philosophy (5)

Prereq: 4 philosophy courses, including 371. Major Chinese philosophers and schools of thought from earliest times to present.

476 Indian Philosophy (5)

Prereq: 4 philosophy courses, including 370. Classical Hinduism.

477 Buddhist Philosophy (5)

Prereq: 4 courses, including 371. (on demand) Abhidhamika, Madhyamika, Yogacara, Zen, and other philosophical doctrines of Buddhism.

478 African Philosophy (5)

Prereq: jr. Critical examination of the question, debated today among African philosophers, whether traditional African thought systems should be regarded and developed as philosophical systems. Includes survey of most significant of these thought systems.

480 Thinking About Death (4)

Prereq: 4 PHIL courses. Survey and analysis of human thought and practice regarding death.

490 Senior Seminar (3)

Prereq: sr, 310, 312, 320. Survey of selected subfields of philosophy. Required of all majors in philosophy during the senior year.

491 Seminar in Philosophy (1-15, max 15)

Prereq: 5 philosophy courses. Selected problems.

492 Applied Ethics (5)

Prereq: 2 courses from 130, 235, 330, 331, 430. An examination of the relationship of applied ethics to ethics as a branch of philosophy, a survey of major areas within applied ethics (medical, business, journalistic, etc.), and a consideration of selected problems in each area.

497 Independent Reading (1-9, max 12)

Prereq: perm of chair.

497T Philosophy Tutorial (1-10)

Prereq: Honors Tutorial College students only. (fall) 3rd-yr tutorial studies in philosophy.

498T Philosophy Tutorial (1-10)

Prereq: Honors Tutorial College students only. (winter) 3rd-yr tutorial studies in philosophy.

499 Senior Thesis (3-15)

Prereq: perm. Must be enrolled in each of three senior quarters to achieve honors in philosophy. Research and writing of long philosophical paper.

499T Philosophy Tutorial (1-10)

Prereq: Honors Tutorial College students only. (spring) 3rd-yr tutorial studies in philosophy.

Physical Education

See Recreation and Sport Sciences—Physical Education Activity

Physical Therapy (PT)

259A Introduction to Physical Therapy (2)

Designed for those students who are considering physical therapy as a career option. Presentations and topics of discussion will attempt to bring the student to an understanding of the physical therapy profession and the requirements for entry into the profession. 2 lec.

259B Introduction to Physical Therapy Clinical Experience (3)

For students who are considering physical therapy as a career, presentations by faculty and direct observation of evaluation and treatment of patients through Therapy Associates will help identify the various roles and settings for physical therapists. 1 lec, 4 lab.

400 Human Anatomy and Dissection (7)

Prereq: major. (summer) Detailed study of gross structures of extremities and body wall with emphasis on musculoskeletal, neuromuscular, respiratory, and cardiovascular structures. Relationships of structure to normal and abnormal function stressed. Includes surface inspection, palpation, analysis of radiographic studies, and dissection. (Same as PT 500.) 4 lec, 9 lab.

401 Functional Anatomy (3)

Prereq: C or better 400. (fall) Based on a foundation of gross anatomy structure, the course applies the principles of biomechanics to explore the relationship between structure and function. Emphasis on biomechanics, arthrokinematics, and muscle function of common activities. Study of palpation, goniometry, manual muscle testing. (Same as PT 501.) 2 lec, 2 lab.

402 Clinical Kinesiology (3)

Prereq: 401. (winter) Application of the principles of functional anatomy to the study of posture and gait. Applications of palpation, goniometry, and muscle testing skills to clinical situations. (Same as PT 502.) 2 lec, 3 lab.

403 Pathophysiologic Processes in Physical Therapy (2)

Prereq: 401. (winter) Application of physiological principles to the study of disease and injury. Etiologies and classifications of pathology and the implications of pathophysiology for physical therapy evaluation and treatment. (Same as PT 503.) 2 lec.

404 Introduction to the Profession (2)

Prereq: major. (summer) Introduces the physical therapy profession and professional role expectations. Studies the history of physical therapy as it relates to the professionalization process, including ethical and legal obligations, as well as student responsibilities. (Same as PT 504.) 2 lec.

405 Introduction to Clinical Education (2)

Prereq: 404. (fall) Introduces professional role responsibilities and patient problems involved in different clinical settings such as acute-care hospitals (inpatient and outpatient), outpatient clinics, rehab facilities, home health agencies, long-term care facilities, schools, and industrial settings. Basic communication skills for effective therapist-patient interaction. Prepares students for first clinical experiences. (Same as PT 505.) 2 lec.

406 Clinical Neurology for Physical Therapists (2)

Prereq: 400. (fall) Provides a link between basic neuroscience and the clinical manifestations which occur following a disruption of processes within the peripheral and central nervous systems. Focus on the signs and symptoms of conditions treated by physical therapists. (Same as PT 506.) 2 lec.

412 Professional Role Issues (2)

(winter) Major philosophical and substantive issues confronting physical therapists and other professionals involved in health care delivery. Includes historical perspectives, education and accreditation, and roles and responsibilities of physical therapists relative to supportive personnel and related health care disciplines. Emphasis on role problems. (Same as PT 512.) 2 lec.

425A PT Evaluations: Case Studies (2)

(winter) Introduction to evaluation formats and procedures to complement the clinical decision making process concurrently taught. Focus on presenting general and specialty evaluations by clinicians, with opportunities for discussion, practice, and critique. (Same as PT 525A.) 1 lec, 2 lab.

440 Clinical Decision Making (2)

Prereq: 412. (winter) Presents theoretical foundation of clinical problem solving. Problem solving models for decision making are advanced and critiqued. Focus on physical therapy evaluation and treatment with analysis of process utilized by clinicians. Application in the clinical setting is provided through arranged experiences. (Same as PT 540.) 2 lec.

448A Clinical Modalities (3)

Prereq: 403. (spring) Designed to provide both theoretical base and procedural techniques involved in the use of clinical modalities. Emphasis on thermal agents, mechanical agents, electrical stimulation, biofeedback, and electromyography. (Same as PT 548A.) 2 lec, 3 lab.

450A Introduction to Clinical Orthopedics (3)

Prereq: 402. (spring) Application of kinesiology, pathophysiology, evaluation, and decision making skills in common conditions such as sprains, strains, fractures, and total joint arthroplasty. Clinical decision making in sports medicine, industrial, and geriatric cases. Aspects of orthopedic surgical intervention discussed. (Same as PT 550A.) 2 lec, 3 lab.

467 General Medical-Surgical Cases (3)

Prereq: 400. (spring) Presentation of general medical-surgical patient problems commonly seen in physical therapy. Case study approach incorporates basic, social, and clinical sciences as well as PT and interdisciplinary evaluation and treatment. Practice skills focus on diagnostic and patient care procedures. (Same as PT 567.) 2 lec, 3 lab.

480A Research Design (3)

Prereq: 440. (spring) Application of research principles and procedures to critical analysis of physical therapy related research literature; identification and development of a researchable problem in physical therapy. (Same as PT 580A.) 3 lec.

499 Clinical Education Experience I (1)

Prereq: 405. Assigned clinical experiences appropriate to student's level of skill. (Same as PT 599.) 3 lab.

Physics and Astronomy

Astronomy (ASTR)

100 Survey of Astronomy (4) (2N)

General introduction to astronomy. Topics (chosen by instructor) may include historical astronomy, planets, comets and asteroids, the sun, stars and galaxies, interstellar matter, black holes, the "Big Bang" theory, and the evolution of the universe. No prereq, but familiarity with basic algebra and geometry is beneficial. Also listed as PSC 100. 4 lec.

100D Moons and Planets:**The Solar System (4) (2N)**

The solar system, sun, moons, and planets as seen through the eyes of modern science and space missions. A survey of neighboring worlds using NASA data, photographs, and videos. Also listed as PSC 100D. 4 lec.

140 Observational Astronomy**Laboratory (1) (2N)**

Experience with telescopes and locating stars, planets, and deep-sky objects in the night sky. Also covers major constellations, seasonal variations, lunar cycles, and, when appropriate, eclipses and comets. Meets at night only. Also listed as PSC 140. 2 lab.

200 Introduction to Planetary Science (3) (25)

Prereq: 4 hrs PSC or GEOL or perm; Math 113 or equiv; no credit for both ASTR 200 and PSC 200. An introduction to the physical processes behind the formation and evolution of planets, moons, asteroids, and comets. Topics will include formation of the Solar System, planetary atmospheres and interiors, volcanism, meteor impacts, and cratering.

305 Fundamentals of Astrophysics (3)

Prereq: PHYS 254 or 351, MATH 263D. Physical foundations of astronomical observation and theory. Time and coordinate systems, orbits, celestial mechanics, radiation mechanisms, and spectra. Telescopes and instrumentation. Introduction to the physical properties of stars, galaxies, and interstellar matter. Overview of cosmological distance measurements and the "hot big bang" model.

310 Astronomy Laboratory (1-3)

Prereq: PHYS 305 and perm. Repeated enrollment. Telescope observations and other laboratory studies dealing with astronomy.

401 Stellar Astrophysics (3)

Prereq: 305, MATH 340, MATH 440. The physics of stellar atmospheres and interiors. Mathematical treatments of radiative transfer, hydrodynamics, and stellar structure; stellar atmospheres and spectra; stellar interiors; and nuclear energy sources. Stellar evolution, red giant stars, pulsating variables; physics of degenerate gases, white dwarfs, neutron stars, pulsars, black holes.

402 Galactic and Interstellar Astrophysics (3)

Prereq: 305, MATH 340 and 440. Structure and evolution of the Milky Way galaxy and the interstellar medium. Stellar populations and orbits of stars in the galaxy; galactic dynamics, evolution of the galactic disk and star clusters. Physics of the interstellar gas, absorption and emission processes, HI and HII regions, molecular clouds. Hydrodynamic instabilities, star formation; supernova explosions and shock waves.

403 Extragalactic Astrophysics and Cosmology (3)

Prereq: 305, MATH 340 and 440. Physics of galaxies and evolution of the universe. Dynamics of galaxy structure, formation, and interaction. Dark matter. Active galactic nuclei, radio galaxies, and quasars. Galaxy clusters and large-scale structure. Cosmological distance measurements, expansion of the universe. Introduction to general relativity; cosmological models, observational tests, cosmic microwave background. Primordial nucleosynthesis.

410 Observational Astrophysics (3)

Modern observational techniques and instrumentation. Optical design of telescopes, cameras, and spectrographs; use of CCD detectors; radio telescopes and receivers; interferometry; space observatories. Data acquisition and reduction strategies; statistical methods.

450 Studies in Astronomy (1-3, arranged)

Prereq: 302 and perm.

Physical Science (PSC)**100 Survey of Astronomy (4) (2N)**

General introduction to astronomy. Topics (chosen by instructor) may include historical astronomy, planets, comets and asteroids, the sun, stars and galaxies, interstellar matter, black holes, the "Big Bang" theory, and the evolution of the universe. No prereq, but familiarity with basic algebra and geometry is beneficial. Also listed as ASTR 100. 4 lec.

100D Moons and Planets:**The Solar System (4) (2N)**

The solar system, sun, moons, and planets as seen through the eyes of modern science and space missions. A survey of neighboring worlds using NASA data, photographs, and videos. Also listed as ASTR 100D. 4 lec.

101 Physical World (4) (2N)

Designed for nonscience majors. Fundamental ideas of measurement, motion, energy, electricity and magnetism, heat, atomic and nuclear physics. Introduction to relativity and quantum phenomena. 4 lec.

101L Physical World (5) (2N)

Designed for nonscience majors. Fundamental ideas of measurement, motion, energy, electricity and magnetism, heat, atomic and nuclear physics. Introduction to relativity and quantum phenomena. 4 lec, 2 lab.

105 Color, Light, and Sound (4) (2N)

Designed for nonscience majors. Physical nature of light and sound including transmission, absorption, reflection, interference, and resonance. Applications include analysis of musical instruments, acoustics, optical systems, perception of color and sound. 4 lec.

105L Color, Light, and Sound (5) (2N)

Designed for nonscience majors. Physical nature of light and sound including transmission, absorption, reflection, interference, and resonance. Applications include analysis of musical instruments, acoustics, optical systems, perception of color and sound. 4 lec, 2 lab.

111 The Metric System (1)

Introduction to International (Metric) System of Units (SI) through lecture and laboratory experience. Topics include: history of and rationale for SI; SI and its rules for use; metric computation and conversion techniques. Not offered on Athens campus.

140 Observational Astronomy Laboratory (1) (2N)

Experience with telescopes and locating stars, planets, and deep-sky objects in the night sky. Also covers major constellations, seasonal variations, lunar cycles, and, when appropriate, eclipses and comets. Meets at night only. Also listed as ASTR 140. 2 lab.

200 Introduction to Planetary Science (3) (25)

Prereq: 4 hrs PSC or GEOL or perm; Math 113 or equiv; no credit for both ASTR 200 and PSC 200. An introduction to the physical processes behind the formation and evolution of planets, moons, asteroids, and comets. Topics will include formation of the Solar System, planetary atmospheres and interiors, volcanism, meteor impacts, and cratering.

Physics (PHYS)**201 Introduction to Physics (5) (2N)**

(fall, winter) 1st course in physics; open to students from all areas. Students should have high school level algebra and trigonometry, but no calculus required. Recommended for students in liberal arts, architecture, industrial technology, geological sciences, plant biology, and premedicine. Mechanics of solids and liquids. 3 lec, 2 lab, 1 recit.

202 Introduction to Physics (5) (2N)

Prereq: 201 or 251. (winter, spring) Continuation of 201. See 201 for description. Includes electricity, magnetism, heat, thermodynamics, waves, and sound. 3 lec, 2 lab, 1 recit.

203 Introduction to Physics (5) (2N)

Prereq: 202. (spring, fall) Continuation of 201 and 202. See 201 for description. Includes light, relativity, quantum, atomic, and nuclear physics. 3 lec, 2 lab, 1 recit.

210 Physics Seminar (1)

Prereq: physics major or perm. Provides overviews of classical mechanics, relativity, and contemporary physics. Films and current science news will be used to search for student interest in future study.

251 General Physics (5) (2N)

Prereq: MATH 263A. Classical physics with calculus and vectors. Newtonian mechanics, rotational dynamics, gravitation. 3 lec, 2 lab, 1 recit.

252 General Physics (5) (2N)

Prereq: 251 and MATH 263B. Classical physics with calculus and vectors. Fluids, wave phenomena, optics, thermal properties of matter, heat and thermodynamics. 3 lec, 2 lab, 1 recit.

253 General Physics (5) (2N)

Prereq: 252. Classical physics with calculus and vectors. Electricity and magnetism. 3 lec, 2 lab, 1 recit.

254 Contemporary Physics (3)

Prereq: 253 or EE 321. Introduction to relativity and quantum theory: selected topics in atomic, solid state, nuclear, particles, and cosmology.

270 Special Studies (1-4)

Prereq: perm. Special studies in physics under supervision of faculty member.

272 Electronics Laboratory (2)

Prereq: 253 and phys major or perm. (winter) Circuit analysis, electronic measurements, semi-conducting devices and instrumentation from DC to microwaves. 4 lab.

273 Electronics Laboratory (2)

Prereq: 272 and phys major or perm. (spring) Circuit analysis, electronic measurements, semi-conducting devices, and instrumentation from DC to microwaves. 4 lab.

297T Physics Tutorial (1-15)

Prereq: Honors Tutorial College students only. (fall) 1st-yr tutorial studies in physics.

298T Physics Tutorial (1-15)

Prereq: Honors Tutorial College students only. (winter) 1st-yr tutorial studies in physics.

299T Physics Tutorial (1-15)

Prereq: Honors Tutorial College students only. (spring) 1st-yr tutorial studies in physics.

303 Digital Computing Methods in Physics (4)

Prereq: phys major or perm. Practical computer programming (FORTRAN, etc.) with special emphasis on problems in physics. 4 lec.

311 Mechanics (4)

Prereq: 253 or 315; MATH 340. (fall) Fundamentals of physical mechanics using vector analysis and ordinary differential equations. Particle dynamics, accelerating reference systems, central forces and celestial mechanics.

312 Mechanics (4)

Prereq: 311. (winter) Continuation of 311. Many-particle systems, rigid body dynamics, Lagrangian methods, and small oscillations.

351 Modern and Quantum Physics (4)

Prereq: 253. Introduction to relativity and quantum theory. Particle and wave propagation, 3-dimensional hydrogen atom.

352 Modern and Quantum Physics (4)

Prereq: 351. Quantum effects, nuclear and particle physics, statistical physics, molecular and solid state physics; astrophysics, general relativity, and cosmology.

371 Intermediate Laboratory (Electrons) (2)

Prereq: 352 or perm. Fundamental experiments on electron properties including charge and mass, wave properties, atomic binding, spin, and conduction. 4 lab.

372 Intermediate Laboratory (Photons) (2)

Prereq: 352 or perm. (winter) Experiments in optics, lasers, X-rays and spectroscopy. 4 lab.

373 Intermediate Laboratory (Nucleons) (2)

Prereq: 352 or perm. (spring) Nuclear decay modes and α , β , γ -decay spectroscopy. Nuclear reactions and scattering. Principles of operation of α , β , γ and neutron detectors and data acquisition systems. 4 lab.

397T Physics Tutorial (1-15)

Prereq: Honors Tutorial College students only. (fall) 2nd-yr tutorial studies in physics.

398T Physics Tutorial (1-15)

Prereq: Honors Tutorial College students only. (winter) 2nd-yr tutorial studies in physics.

399T Physics Tutorial (1-15)

Prereq: Honors Tutorial College students only. (spring) 2nd-yr tutorial studies in physics.

411 Thermodynamics (4)

Prereq: 253, MATH 340. (fall) 1st and 2nd laws of thermodynamics, phase changes and entropy. Temperature, thermodynamic variables, equations of state, heat engine. 3 lec, 1 rec.

412 Kinetic Theory and Statistical Mechanics (4)

Prereq: 411. (winter) Kinetic theory, transport phenomena of gases, and introduction to classical and quantum statistics. 3 lec, 1 rec.

420 Acoustics (3)

Prereq: 312, MATH 340, or perm. (spring, odd yrs) Vibration, sound radiation, sound propagation, and practical aspects of sound. 3 lec.

423 Geometrical and Physical Optics (4)

Prereq: 253, MATH 441, or perm. Reflection, refraction, diffraction, lenses, polarization, birefringence, interference, coherence, and selected introductory topics in modern optics. 4 lec.

427 Electricity and Magnetism (4)

Prereq: 253, MATH 340 and 440. (fall) Circuits and electric and magnetic fields. Topics on field sources, potentials, Gauss' law, polarization and dielectrics, magnetic induction. 3 lec, 1 rec.

428 Electricity and Magnetism (4)

Prereq: 427. (winter) Electric and magnetic fields. Topics on magnetic potentials, magnetic forces, Faraday law, magnetic materials, capacitance and inductance, energy of charge and current distributions, time-varying current. 3 lec, 1 rec.

429 Electromagnetism and Relativity (3)

Prereq: 428. (spring) Advanced topics in electromagnetism; Maxwell's equations and electromagnetic waves; special relativity and Lorentz transformation. 3 lec.

431 Electronics Laboratory (3)

Prereq: perm. Experiments in electronic measurement techniques from simple A.C. and digital circuits to microprocessors and analyzers. 6 lab.

451 Quantum Mechanics (4)

Prereq: 352, MATH 441 or perm. Classical background, early work, some observables and Hermitian operators, representations, symmetry and conservation laws, One-dimensional Schrodinger equation solutions in the position and momentum representation. Some problems in two dimensions. Philosophical issues and quantum paradoxes. 4 lec.

453 Nuclear and Particle Physics (4)

Prereq: 352. (spring) Descriptive treatment of nuclear phenomena. Elementary theory of nucleon-nucleon interaction. Systematics of nuclear structure (shell model and collective model). Properties and interactions of fundamental particles. Devices and techniques of nuclear and high energy physics. 3 lec, 1 rec.

470 Special Problems (1-4)

Prereq: 22 hrs. Supervised research problems of limited scope in experimental and theoretical physics.

471 Solid State Physics (4)

Prereq: 352, 412. (spring, even yrs) Fundamental properties of solid state of matter. 3 lec, 1 rec.

475 Advanced Laboratory (1 hr per sec, max 3)

Prereq: 373 or perm. Wide selection of experiments from many areas of physics. Limit of 2 students per section. Student may select up to 3 different sections each qtr.

490H Honors Thesis (1-6)

Prereq: Honors Tutorial students or departmental honors candidates only; perm of director of honors studies. Supervised research work in physics, astronomy, or engineering physics, intended for submission for undergrad honors.

493 Undergraduate Seminar (1)

Prereq: jr. Important areas of current interest in field of physics, history of physics, development of ideas in physics, and other aspects of physics.

497T Physics Tutorial (1-15)

Prereq: Honors Tutorial College students only. (fall) 3rd-yr tutorial studies in physics.

498T Physics Tutorial (1-15)

Prereq: Honors Tutorial College students only. (winter) 3rd-yr tutorial studies in physics.

499T Physics Tutorial (1-15)

Prereq: Honors Tutorial College students only. (spring) 3rd-yr tutorial studies in physics.

Political Communication (POCO)

201 Introduction to Political Communication (3)

Overview of the realm of political communication, the interactions among political figures, political interests, the press, and the public. Against the background of the American political process, an investigation of those involved in that process, their relationships, and the role of mass and interpersonal communication in these relationships.

401 Seminar in Political Communication (5)

Prereq: 201 and completion of a min. of four courses from the program, or perm. A senior-level research course investigating selected aspects of political communication.

Political Science (POLS)

101 American National Government (4) (25)

Constitutional basis and development, political processes, institutions, and organization of American national government.

102 Issues in American Politics (4) (25)

Concerned with administration and policy-making processes of national government in selected areas, e.g., welfare, civil rights, defense, etc.

103 The United States in World Affairs (4) (25)

Introduction to major foreign policy problems confronting successive U.S. administrations in world affairs.

150 Current World Problems (4) (25)

Examines a number of the major political crises, problems, and issues confronting the contemporary world.

210 Principles of Public Administration (4) (25)

E. Baum, D. Burnier, M. Mumper. Introduction to role and operation of public agencies in American society. Examines organization of federal, state, and local bureaucratic systems, their interrelations, and their basic principles, functions, and tasks.

230 Comparative Politics (4) (25)

L. Aubrey, T. Suzuki. Introduction to dynamics, structures, and comparison of contemporary political systems and processes.

250 International Relations (4) (25)

R. Bald, S. Kim, P. Weitsman. Contemporary international system and major forces and conditions which affect current international politics. Special emphasis on role of conflict and need for peaceful conflict resolution.

270 Political Theory (4) (25)

F. Henderson. Introduction to study of political theory: examination of selected political issues and theorists from philosophical perspective. Emphasis on developing one's own political values and theories.

301 The Politics of Law (4)

Prereq: 101. *J. Gilliom.* Introduces the study of law as a political process with special emphasis on courts, legal ideologies, violence, and the mobilization of rights claims in social and political conflict.

304 State Politics (4)

Prereq: 101, 102. *J. Tucker.* Comparative analysis of state political systems. Emphasis on structure and process of policy making of states within federal context.

305J Writing on Political Science Topics (4) (1J)

Prereq: jr, majors only. *J. Gilliom.* Writing course for political science majors. Focus is on studying and producing clear and persuasive writing about political issues.

306 Politics of Appalachia (5)

Prereq: 101 or perm. Introduction to Appalachia, its political patterns, and political problems such as politics of poverty and powerlessness. Includes examination of responses to these problems by various levels of government—national, regional, state, and local.

310 American Domestic Policy (4)

Prereq: 101, 102, or perm. *M. Mumper.* Major issues in American domestic policy are discussed from a variety of perspectives. The origin, development, and current structures of economic and social policy will be discussed. An analysis of these policies from a free market as well as a Marxist perspective will be provided.

319 Gay and Lesbian Politics (4)

Prereq: soph. *R. Hunt.* Exploration of emergence and ramifications of gay political activism in Western culture. Homosexuality is examined from vantage points of religion, psychology, law, and politics.

320 Urban Politics (4)

Prereq: 101, 102, or perm. *D. Burnier, L. Randolph.* Examination of role of values in urban politics focusing on their relationship to urban problems, structure and functions of municipalities, urban professionalism, and alternative urban arrangements.

323 Black Politics in the United States (4)

Prereq: 101 and 102 or perm. *L. Randolph.* Appraisal of economic and institutional structure of American society through social doctrines, enunciated by black political theorists, that serve as inspiration and ideology for black political movements. Examines sociopolitical societies in various parts of Africa and interprets black political movements in cultural, philosophical, ideological, and technological terms. Not open to those who have had AAS 323.

331 Politics in Western Europe (4) (25)

Government and politics in several West European nations.

333 Politics in Russia and Former Soviet Union (4)

D. Williams. Introduction to political development, ideology, institutions, and contemporary politics of the former U.S.S.R.

340 The Politics of Developing Areas (4) (2C)

Major theories and problems of political, socio-cultural, and economic development in new states of Asia, Africa, and Latin America, with special emphasis on heritage of colonialism, struggle for independence, and political adjustments to rapid social and technological change.

354 American Foreign Policy (4)

Prereq: 103 or perm. Consideration of problems involved in formulation and execution of foreign policy. Particular emphasis on contemporary problems of American policy makers.

371 Plato, Aristotle, and Pre-Modern Political Thought (4)

Prereq: not open to fr. *J. White.* Major figures and basic concepts characteristic of political thought in ancient and medieval periods. Emphasis on original works of Plato, Aristotle, St. Augustine, St. Aquinas and on developing one's own political values and theories.

372 Modern Political Thought (4)

Prereq: not open to fr. *J. White*. Basic philosophical conceptions of modern nation state. Utilizing original works, evolution of nation state traced through philosophical literature from its Renaissance origins. Attention focused on both formative and critical perspectives, such as those of Machiavelli, Rousseau, and Emma Goldman with emphasis upon evaluation of norms associated with modern state.

373 Contemporary Political Thought (4)

Prereq: not open to fr. *F. Henderson, R. Hunt*. 19th- and 20th-century political theory. Focus on such contemporary philosophical and political issues as emergence of European socialist tradition, origins of human aggression, and human alienation. Attention given to selected theorists such as Marx, Freud, Gandhi, M. Friedman, and M. Harrington.

374 Great Jurists (4)

Prereq: not open to fr. *F. Henderson, R. Hunt*. Analysis of life, legal writings, and thought of prominent jurists such as Taney, Frankfurter, Harlan, Marshall, Douglas, and Learned Hand.

390 Political Workshop (10-15)

Prereq: 101 and perm. (fall, even years) *A. Prisley*. Intensive analysis of political organizations and campaigning combined with field experience in campaigning.

401 American Constitutional Law (4)

Prereq: 16 hrs POLS, including 101. *J. Gilliom*. Analyzes the politics of American constitutional law with special focus on judicial review, economics, race, and gender.

402 American Constitutional Law (4)

Prereq: 16 hrs POLS, including 101. *J. Gilliom*. Analyzes the politics of American constitutional law with special focus on abortion, censorship, and surveillance.

404 Civil Liberties (4)

Prereq: 270 and 401 or 402. *F. Henderson*. Examination of selected civil liberties issues such as freedom of expression, human and political equality, rights of criminally accused, and rights of indigent.

405 American Political Parties (4)

Prereq: 11 hrs POLS. *A. Prisley*. Origin, growth, organization, and methods of parties; suffrage, nominations, and elections; role of parties in democracy.

406 Elections and Campaigns (4)

Prereq: 101. *M. Burton*. Examines nature of voter and rationality of voter decisions; impact of campaigns and their influence on election outcomes; techniques used in political campaigns; and role of elections in American society.

407 Politics of Urban Development (4)

Prereq: 320. *L. Randolph*. Focuses on the causes and consequences of economic development politics and policies in urban America and the multiple facets of urban development.

408 Urban Public Administration (4)

Prereq: 320 or perm. *L. Randolph*. Examines administration of urban programs. Focuses on agency-client relationships, professionalism, and public delivery.

409 Criminal Procedure (5)

Prereq: 11 hrs POLS or perm. *T. Eslocker*. Role, function, and problems of American judicial, prosecutory, policing, and correctional systems in political process. Crime and law as functions of social and political systems. Examination of relationship of law and social change in industrialized, urbanized, and technical society.

410 Public Policy Analysis (4)

Prereq: 12 hrs POLS, including 102. *M. Mumper, L. Randolph*. Analysis of policy process; formulation, implementation, and evaluation. Examines policy areas such as energy, health, economic development.

412 Public Personnel Administration (4)

Prereq: 11 hrs POLS. *E. Baum*. Philosophy, problems, and procedures of public personnel management: recruitment, training, promotion policies, position classification, and employer-employee relations.

413 Administrative Law (4)

Prereq: 11 hrs POLS. Organization, functions, and procedures of selected national regulatory agencies; principles affecting administrative discretion, administrative power over private rights, enforcement, and judicial control of administrative decisions. No credit if BUSL 475.

414 Organizational Theory and Politics (4)

Prereq: 210. *D. Burnier, M. Weinberg*. Examination of public organizations. Presents major theories of organizations in public administration.

415 The American Presidency (4)

Prereq: 11 hrs POLS. *M. Burton*. Analysis of office of national chief executive and its place in American political system. Attention given to constitutional status and powers, functional development, and interrelationship of person and office.

417 Legislative Processes (5)

Prereq: 11 hrs POLS. *M. Burton*. Explores legislative process and policy, primarily at national level. Examines influence of interest groups, constituencies, political parties, executive branch, and organizational structure of Congress on legislative outcomes.

418 Interest Groups in American Politics (4)

Prereq: 11 hrs POLS. *D. Burnier*. Organization and tactics of pressure groups and their impact on policy-making process.

420 Women, Law, and Politics (4)

Prereq: jr or perm. *P. Richard*. Focuses on political and legal position of women in U.S. Covers women's legal status, feminist movement, current issues, and public policy responses concerning women's position such as Equal Rights Amendment, marriage and divorce laws, affirmative action, abortion, and pay equity.

424 Intergovernmental Relations in the U.S. (4)

Prereq: 210 or perm. *D. Burnier*. Examines intergovernmental fiscal patterns between federal-state-local governments and impact of fiscal transfers on local budgeting and finance administration. Includes analysis of nonfiscal patterns such as federal program requirements, their impact on local administrative processes, and other pressures on local budgeting and finance.

425 Environmental and Natural Resource Politics and Policy (4)

N. Manring. Examines the institutional context and political dynamics of environmental and natural resource policy making in the United States. Topics include history of the U.S. environmental movement, major players and arenas of influence in environmental politics, and current policy issues including public lands, endangered species, solid and hazardous waste, and air pollution.

427 Formulation of American Foreign Policy (4)

Prereq: 103 or 354 or perm. *H. Molineu*. Covers institutional and administrative as well as political and more informal processes whereby foreign policy decisions are formulated and implemented in U.S.

429 Comparative Public Administration (4)

Prereq: 210 or 230 or perm. *E. Baum, D. Williams*. Examines and compares characteristics of public administrative systems in various national political settings.

432 Policy Making in Russia (4)

Prereq: 11 hrs POLS, including 333 or course in Soviet history or perm. *D. Williams*. Examination of how Russian leadership deals with number of major domestic problems.

433 Russian Foreign Policy (4)

Prereq: 11 hrs POLS, including 333 or perm. *D. Williams*. Analysis of foreign policies of the former U.S.S.R. Historical, ideological, strategic, and other influences covered.

434 Government and Politics of Latin America (4)

Prereq: jr or sr. *T. Walker*. Political systems of Latin America. Emphasis on power relationships and political obstacles to change in contemporary Latin America.

435 Revolution in Latin America (4)

Prereq: jr or sr. *T. Walker*. Revolution as theoretical concept and as practical reality in several Latin American countries. Special emphasis on Cuban and Nicaraguan revolutions.

438 Government and Politics of Germany (4)

Prereq: 11 hrs POLS or perm. *R. Bald*. Major political processes, personalities, and institutions of contemporary West Germany, including key foreign policy issues.

439 Politics in France (4)

Prereq: 11 hrs POLS or perm. Major political processes, personalities, ideas, and institutions of modern France.

441 Government and Politics of Africa (4)

Prereq: 8 hrs POLS or history. *L. Aubrey*. Development and structure of modern African states with emphasis on political processes in tropical Africa.

442 Middle East Politics (4)

Prereq: 12 hrs POLS including 230. Examination of the major issues and dilemmas in contemporary Middle Eastern politics including the clash of religions and nationalisms, security and stability in the Persian Gulf, the Arab-Israeli conflict, efforts at democratization, and the status of women.

445 Government and Politics of Japan (4)

Prereq: 11 hrs POLS or Asian history. *T. Suzuki*. Political institutions and processes of Japan with emphasis on developments since 1945.

446 Government and Politics of China (4)

Prereq: 11 hrs POLS or Asian history. *T. Suzuki*. Political institutions and processes and major political developments in modern China.

447A Government and Politics of Southeast Asia (4)

Prereq: 11 hrs POLS or history. Introduction to the political institutions and processes of contemporary Southeast Asia.

447B Government and Politics of Southeast Asia (4)

Prereq: 11 hrs POLS or history. Continuation of 447A but can be taken independently. More in-depth study of politics in selected countries of Southeast Asia.

450H Honors in Political Science (5, max 20)

Prereq: acceptance in departmental honors program. Seminar on selected topics in political science and preparation and research for writing an honors thesis.

452 Advanced International Relations (4)

Prereq: 250 or perm. *S. Kim*. In-depth analysis of various aspects of international relations including major theoretical approaches to study of international relations.

455 International Law (4)

Prereq: 250 or perm. *S. Kim*. Role of international law in interstate relations and international organization.

456 International Organizations (4)

Prereq: 250. *S. Kim*. Analysis of nature, development, structure, and functions of international organizations with particular emphasis on United Nations.

457 National Security in the Post-Cold War World (4)

Prereq: 12 hrs POLS including 250. *P. Weitsman*. Introduction to the concepts and problems of attaining international security in an ever-changing world. Overview of the traditional and new sources of state insecurity and consequences of the quest by nations to attain security in the international system.

459 Arms Control and Disarmament (4)

Prereq: 11 hrs POLS or perm. *R. Bald*. Examines military force in nuclear age with special emphasis on strategy of nuclear deterrence; history of disarmament negotiations since WWII; arms control agreements; and case studies in current U.S.-Russian arms control negotiations.

463 The United States and Africa (5)

Prereq: 103 or 250 or 354. *L. Aubrey*. Origins and nature of American relations with African states, with emphasis on current American interests and policy.

464 Africa and the OAU (3)

Coreq: POLS 464W. *L. Aubrey*. Examination of the relationship between African states and the Organization of African Unity. Includes foreign policies of selected African states and consideration of current issues in Africa. Includes participation in the annual Inter-University Simulation of the OAU.

464W Simulation Portion of POLS 464 (2)

Coreq: POLS 464.

475 Studies in Political Thought (5)

Prereq: 1 course in political thought or perm. *F. Henderson, R. Hunt*. Selected topics in political theory; e.g., anarchism, socialism, democratic theory, technology and politics, etc. Consult department for information pertaining to current course description and schedule.

476A American Political Thought (4)

Prereq: 11 hrs POLS or history. *A. Pringley*. Origin and development of political ideas from colonial period through slave controversy.

476B American Political Thought (4)

Prereq: 11 hrs POLS or history. *A. Pringley*. Continuation of 476A but can be taken independently. Begins with Social Darwinism and concludes with contemporary political ideas in America.

477 Legal Theory and Social Problems (4)

Prereq: 12 hrs POLS or perm. *F. Henderson*. Examination of legal reasoning and normative values of judges, lawyers, legal theorists, and administrative agencies in shaping legal solutions to contemporary social problems. Emphasis on developing one's own political, legal, and philosophical values.

478 Feminist Political Theories and Movements (5)

Prereq: jr or perm. *J. White*. Explores issues of power, powerlessness, oppression, and transcending oppression. Views feminism as human rights movement. Topics: origins and history of sexism and feminism, classic treatises of feminist political theory, contemporary theories from conservative to anarchist, visions of post-sexist futures, movement strategies and tactics, practical applications.

479 Latin American Political Thought (4)

Prereq: 11 hrs POLS. *T. Walker*. Evolution of Latin American political thought from conquest to present. Major emphasis on 20th-century movements such as Democratic Left, Progressive Catholic Left, and Marxist Revolutionary Left.

481 Modern Political Analysis (4)

Prereq: 20 hrs POLS or perm. *A. Gordon, D. Dabelko*. Examination of problems of knowledge in social sciences with particular emphasis on political science. Analysis of major theories or approaches developed in political science recently.

482 Quantitative Political Analysis (5)

Prereq: 481 or perm. *A. Gordon, D. Dabelko*. Designed to show relevance of scientific research techniques to study of politics.

483 Statistical Package for the Social Sciences (4)

Prereq: PSY 121 or POLS 482 or equiv. *D. Dabelko*. Designed to introduce social science students, with some statistical background, to the use of the microcomputer for data analysis. Although the focus is the structure and syntax of SPSS/PC, fundamental data analysis problems will be discussed in the context of computer applications.

484 Management Skills for Public Administration (5)

Prereq: jr. *E. Baum*. Practicum designed to introduce students to several management skills needed for success in public administration and to permit them to apply these skills in a classroom setting.

486 Public Budgeting (4)

Prereq: 210 or 411 or perm. *M. Weinberg*. Examines politics, techniques, and consequences of public budgeting processes at federal, state, and local levels.

487 Financial Management in Government (4)

Prereq: 210, 411 or equiv or perm. *M. Weinberg*. Examines financial aspects of state and local governments. Financial conditions of these governments discussed in conjunction with various actions governments take to deal with them.

488 Public Dispute Resolution (4)

Prereq: jr. *N. Manning*. Examines the field of alternative dispute resolution. Focus is on the dynamics and management of such public issues as facility siting, natural resource use, and community funding. Topics include conflict assessment, negotiation, mediation, and the politics of alternative dispute resolution.

490 Studies in Political Science (3-5)

Prereq: 11 hrs POLS or perm. Intensive study of special topics in field of political science, including American government and politics, comparative government, international relations, political theory, and public administration.

492A-E Research in Political Science (1-5)

Prereq: 18 hrs POLS; max 20 hrs in 492ABCDE; max 10 hrs in one course. Research in selected subfields of political science; international relations, American politics, comparative government, public administration, political theory. See quarterly schedule of classes for registration information.

494A-Z Workshops in Selected Topics (1)

Prereq: perm. Workshop in selected topics.

495 Public Affairs Internship (1-15)

Prereq: jr or above, POLS major, or perm. *D. Dabelko*. Provides qualified students with opportunity to learn through working in selected public and private agencies.

Professional Communication (PRCM)

202 Introduction to Professional Communication (2)

Prereq: Inco 103 and fr-level Tier I English. Introduces the basic principles and practices of professional communication in a team-based setting, in preparation for real world workplace experiences. Focuses on practices of business-related research, writing, and speaking. Some attention is given to early preparation for the internship search.

325J Professional Communication (4) (1J)

Prereq: jr or sr, fr-level Tier I English. Introduction to basic concepts of organizational communication and practice with written communication forms (letters and reports). Brief consideration given to oral communication.

Psychology (PSY)

101 General Psychology (5) (2S)

Introduction to psychology. Survey of topics in experimental and clinical psychology including physiological bases of behavior, sensation, perception, learning, memory, human development, social processes, personality, and abnormal behavior.

120 Elementary Statistical Reasoning (4) (1M)

Prereq: Tier math placement or MATH 101. Introduction to research methodology and descriptive and inferential statistics, emphasizing the development of practical reasoning skills necessary for the comprehension and critical evaluation of statistical information typically encountered in everyday life. No credit for both 120 and any of the following: MATH 250, MATH 250B, MATH 251, PSY 121. No credit if already credit for PSY 221 or QBA 201; no credit toward psychology major.

190 Workshops in Applied Psychology (1-2, max 5)

Workshops on specific topics in applied psychology, offered yearly, carrying predetermined alphabetical designations (e.g., 190A). Students seeking academic credit must complete satisfactorily written project determined by instructor. Graded credit/no credit.

201 Sensation and Perception (4)

Prereq: 101. Sensory and perceptual processes in vision, audition, somesthesia, gustation, olfaction, and kinesthesia. Theory and research on perceptual phenomena with an emphasis on visual and auditory modalities, including perception of objects, space, and events; effects of person variables on perception; perceptual development.

203 Learning (4)

Prereq: 101 and 120 or 221. Experimental investigation of classical and instrumental conditioning, discrimination learning, generalization, related phenomena.

221 Statistics for the Behavioral Sciences (5)

Prereq: MATH 113 or tier math placement above 113. Introduction to descriptive and inferential statistics with emphasis on inferential statistics. No credit for both 221 and any of the following: MATH 251, PSY 121, QBA 201.

226 Experimental Psychology (4)

Prereq: 101 and 221. Training in scientific methods and techniques of modern experimental psychology with individual reports of experiments.

233 Psychology of Personality (4)

Prereq: 101. Development and organization of personality, with evaluation of major theoretical viewpoints; research on personality structure, dynamics, and change. No credit awarded if PSY 334J has been taken.

261 Survey of Industrial and Organizational Psychology (4)

Prereq: 101 and 120 or 221 or QBA 201. Survey of industrial and organizational psychology; emphasis on application of psychological theories and research to organizational situation.

273 Child and Adolescent Psychology (4)

Prereq: 101. Behavior from infancy through adolescence. No credit awarded if HCCF 160 or EDEL 200 has been taken. Will not count toward requirements for Education majors.

275 Educational Psychology (4)

Prereq: 101. Applications of psychological theories and models to educational settings (emphasis on schools). Major topics include goals of education; cognitive, social, and affective development in children; cognitive and behavioral models of learning; motivation; individual differences; effects of social class, ethnicity, gender, and cultural deprivation on learning and development; tests and evaluation. Emphasis is on the role of teachers and parents as facilitators of learning and development. No credit awarded if EDCI 275 has been taken.

304 Human Learning and Cognitive Processes (4)

Prereq: 12 hrs PSY including 101 and 221. Theoretical and experimental investigations of learning in human beings: concept learning, problem solving, memory, motor skills, and language.

305 Human Memory (4)

Prereq: 12 hrs PSY including 101 and 226. Structure and processes of human memory, including historical models of memory, contemporary theories of memory, techniques used in memory experimentation, memory stores, memory codes, mnemonic devices, memory failures, neurological basis of memory and memory failures, and computer models of memory.

307 Psycholinguistics (4)

Prereq: 9 hrs PSY including 101 or perm. How people produce, understand, and acquire language; psychological and linguistic theories. Emphasis on use of language.

308 Human Judgment and Decision Making (4)

Prereq: 226. Descriptive and prescriptive models of human judgment and decision making. Topics include how people understand uncertainty, and how they learn the relationships that enable them to make predictions, make decisions when the outcomes of these decisions are uncertain, and perceive risks. No credit awarded if MGT 430 has been taken.

310 Motivation (4)

Prereq: 12 hrs PSY including 101. Survey of theories of motivation, with emphasis on human motivation.

312 Physiological Psychology (4)

Prereq: 101. Physiological mechanisms involved in perception, movement, motivation, learning, emotions, and mental disorders. Anatomy, physiology, and chemical activities of cells in the nervous and endocrine systems. Research approaches for studying interactions between physiology and behavior.

314 Comparative Psychology (5)

Prereq: 9 hrs PSY including 101. Behavior of animals across phylo-genetic scale. Interaction of genetics, hormones, learning, etc., in development of behavior. Lecture, lab, field trips, and naturalistic movies.

315 Behavior Genetics and Individual Differences (5)

Prereq: 9 hrs PSY including 101. Extensive survey of individual differences and their relationship to genetic factors. Topics include chromosomal abnormalities, inborn errors of metabolism, genetic and prenatal screening, behaviors in infants, genetics and intellectual differences, psychopathology and genetics, racial differences, and continuing evolution of behavior.

321 Experimental Design and Analysis (5)

Prereq: 101 and 221 or perm (226 recommended). Continuation of 221 statistical techniques through multifactor analysis of variance and post-tests. Integration of experimental design with statistical analysis. Does not apply to Arts and Sciences social sciences or natural sciences requirement.

327 Human Psychophysiology (4)

Prereq: 101 and 120 or 221 and perm (226 recommended). Relationships between psychological variables and physiological events in humans. Measures of cardiovascular, electrodermal, muscle, respiratory, and central nervous system activity; recording techniques; research findings; and applications such as biofeedback and lie detection.

332 Abnormal Psychology (4)

Prereq: 9 hrs PSY including 101. Behavior disorders, their cause and effects on person, family, and society.

335 Environmental Psychology (5)

Prereq: 9 hrs PSY, including 101. Natural and built environments as factors of human behavior, cognition, and choice. Research concerning environmental design and evaluation from psychological standpoint emphasized.

336 Social Psychology (4)

Prereq: 101 and 120 or 221. Theory and research on the ways that people think about, influence, and relate to one another. Specific topics include attitudes and behavior, social perception and cognition, conformity, persuasion, group influence, aggression, attraction, and helping behavior.

337 Social Psychology of Justice (4)

Prereq: 9 hrs PSY including 101 (336 recommended). Theory and research on the interface of psychology and the legal system (with an emphasis on social psychology). Specific topics include dilemmas faced by psychologists in the legal system; legality vs. morality; the socialization, training, and ethics of lawyers and police; perception memory and error in eyewitness testimony; hypnosis; lie detection and confessions; rights of victims and accused; rape and rapists; arrest and trial; jury selection; jury dynamics and deliberations; insanity and the prediction of dangerousness; sentencing; death penalty; rights of special groups; theories of crime.

341 Tests and Measurements (4)

Prereq: 12 hrs PSY including 101 and 221. Tests, psychophysical methods, scaling techniques, and questionnaires. Basic criteria including reliability, homogeneity, and validity.

351 Introduction to Clinical and Counseling Psychology (4)

Prereq: 12 hrs PSY including 233 or 332. Diagnostic and remedial procedures and resources; professional problems, duties, skills, and interprofessional relationships.

361 Advanced Organizational Psychology (4)

Prereq: 261. Study of behavior in organizations with emphasis on applying psychological research and principles to understanding structure and process of (primarily work) organizations.

362 Personnel Psychology (4)

Prereq: 261. In-depth coverage of topics in personnel psychology including job analysis, organizational entry, and training and evaluation of personnel.

374 Psychology of Adulthood and Aging (4)

Prereq: 9 hrs PSY including 101 or perm (273 recommended). Behavioral change and continuity over adult years through old age. Emphasis on interaction of psychological, sociocultural, and biological variables as they contribute to behaviors of aging individual from perspective of developmental framework.

376 Psychological Disorders of Childhood (4)

Prereq: 101 and 273 or HCCF 160 or EDEL 200. Characteristics, etiology, and treatment of abnormal child behavior: developmental anxiety, depressive eating, hyperactivity, conduct, and psychophysiological disorders.

378 Psychology of Gender (4)

Prereq: 9 hrs PSY including 101. Sex differences in physical characteristics, abilities, personality, and social behavior; development of sex roles; sex roles across the life span; relationships of sex, gender, and sex roles to interpersonal functioning, work and psychological disorders.

380 Psychology of Health and Illness (4)

Prereq: 12 hrs PSY including 101. Theory and research on the psychological aspects of physical health and illness; interrelationships of behavior, emotion, stress, lifestyle, and illness; psychological factors in disorders such as hypertension, coronary artery disease, headache, asthma, and immune disorders; applications and effectiveness of psychological interventions.

390 Research in Psychology (1-5, max 15)

Prereq: 226 and written perm. Supervised independent research on predefined problem. Graded credit/no credit.

418 History and Systems of Psychology (4)

Prereq: 20 hours PSY. Comparative, historical review of major conceptual orientations in psychology within last century. Includes analysis of important philosophy of science issues bearing on psychology, such as nature of theory, observation, explanation, and some specialized topics especially pertinent to psychology.

430 Psychoactive Drugs: Therapeutic Agents and Drugs of Abuse (4)

Prereq: 312 or perm. Patterns of use and abuse of psychoactive agents, behavioral and physiological effects of drugs; etiological factors in drug abuse; treatment of drug abuse; use of drugs in the treatment of mental disorders; comparative effectiveness and integration of pharmacological and psychological interventions; research methods and problems in conducting research.

470 Prenatal Influences on Development (4)

Prereq: PSY 273 or EDEL 200 or HCCF 160; and PSY 312 or 1 biology course. Prenatal and perinatal influences on development, including the effects of genetic errors, drugs, nutrition, diseases, maternal behaviors, prematurity, and birthing techniques.

489 Fieldwork in Psychology (1-5, max 5)

Prereq: written perm. Independent fieldwork as volunteer or employee in work directly related to psychology. Arrangements for course credit must be approved by psychology faculty member before fieldwork begins. Contact assistant chair for undergrad affairs or other faculty member to complete necessary forms. Graded credit/no credit.

490 Seminars in Psychology (3-5)

Prereq: dependent on seminar; perm required. Several seminars on specific topics in psychology offered yearly, carrying predetermined alphabetical designations (e.g., 490A). See *Schedule of Classes* for topics each qtr.

491 Special Problems in Psychology (1-15)

Prereq: written perm. Independent work on special problem with any psychology professor.

492 Special Problems—Psychology (1-15)

Prereq: Study Abroad Program, perm.

496H Psychology Honors Seminar (3-5)

Prereq: perm, admission to departmental honors program. Seminar on specific topics. See *Schedule of Classes* each qtr.

497H Readings in Honors Work (1-4, max 10)

Prereq: perm.

498H Honors Work in Psychology (1-4, max 10)

Prereq: perm. Preparation for 499H.

499H Honors Work in Psychology (Thesis) (3-7, max 15)

Prereq: perm.

Quantitative Business Analysis (QBA)

201 Introduction to Business Statistics (4)

Prereq: MATH 163A, MATH 250 or PSY 221. Sampling plans, sampling distribution, decision analysis, estimation and hypothesis testing (one and two population tests), simple linear regression analysis, nonparametric statistical tests.

491 Seminar (4)

Prereq: perm. Selected topics of current interest in quantitative business analysis area.

497 Independent Research (1-4)

Prereq: perm. Research in selected fields of quantitative business analysis under direction of faculty member.

498 Internship (1-4)

Prereq: perm.

Real Estate Technology (REAL)

Real estate courses are available on the Athens campus through Lifelong Learning Programs and at the regional campuses through Continuing Education offices.

101 Real Estate Principles and Practices I (4)

Real property is basic resource with which real estate professionals work. Course includes, but is not limited to, land and its description, rights and interests in real estate, contract law and real estate contracts, title transfer, deeds, leases, financing and mortgages, taxes, home ownership, urban planning, brokerage operations, appraisal and value, applied real estate math, and Ohio requirements for real estate licenses.

102 Real Estate Brokerage (4)

Prereq: 101 or perm. Expands on 101 and includes specialized fields of real estate, principal-agent relationship, listing principles and practices, closing principles and practices, sales contract, principles of economics and real estate appraising, property insurance, real estate finance, federal laws regulating real estate practice, mathematics in real estate, and other facets of real estate needed by real estate professional; Ohio licensing laws and requirements.

103 Real Estate Law (4)

Prereq: 101. Includes all legal areas commonly concerned with typical real estate professional. Among topics covered are law of agency as applied to real estate brokers and sales personnel, law of fixtures, estates, conveyancing of real estate, mortgages and liens, license laws of Ohio, and zoning.

201 Real Estate Appraising I (4)

Deals with appraisal theory, basic principles affecting value of real property; data accumulation and analysis of city, neighborhood, site, and property; applied techniques and estimating value from 3 approaches; building analysis, depreciation; entire range of appraisal process; and preparation based on field experience of preparing single-family residential appraisal report.

204 Real Estate Finance (4)

Prereq: 101. Includes institutions, methods, instruments, and procedures involved in financing of real estate; nature and characteristics of mortgage loans, government influence on real estate finance, and nature of mortgage market. Effects of monetary and fiscal policies on real estate financing considered.

221 Real Estate—Special Topics (4)

Prereq: 204. Special topics in real estate covered. Areas include professionalism, ethics, salesmanship, human relations, F.H.A. and V.A. financing. Real estate office, advertising, building construction and materials, current issues, and problems facing real estate professional also considered.

Recreation and Sport Sciences

Athletic Training (RSAT)

128 Introduction to Athletic Training (2)

Introduction to prevention and care of athletic injuries. No credit if RSAT 129. 2 lec.

129 Principles of Athletic Training (3)

Prereq: athletic training major. (fall) An in-depth study of the principles of athletic training. 3 lec.

131 Practical Aspects of Athletic Training (2)

Prereq: 129. (winter) Introduction of practical athletic training skills with emphasis on preventive and protective injuries. 2 lec, 1 lab.

280 Clinical Experience I (1-2)

Prereq: major, soph. Concentrated elective clinical experience and supervised laboratory in athletic training. (Student may not earn more than 24 total credit hours in any combination of 280, 480, and 490.)

326 Recognition/Evaluation of Athletic Injuries (4)

Prereq: 129, BIOS 301 or 302. (spring) Advanced techniques in management and recognition of athletic injuries. 4 lec.

327 Prevention/Management of Athletic Injuries (3)

Prereq: 129. (winter) Continuation of 326. Advanced techniques in prevention and management of athletic injuries and illnesses. 3 lec.

335 Therapeutic Modalities (5)

Prereq: PHYS 202. (spring) Principles and practical skills associated with therapeutic modalities used in the treatment and rehabilitation of athletic injuries. 4 lec, 2 lab.

345 Emergency Care of Athletic Injuries (3)

Prereq: 129; PESS 227, 228; BIOS 301 or 302. (spring) Advanced course in emergency care designed for, but not limited to, athletic training majors. Hands-on experience allows the realization of proper emergency care. Experiences reinforced with comprehension of related policies and procedures, as well as their application. 2 lec, 2 lab.

350 Independent Study (1-5)

Prereq: jr, perm. Selected individual case studies utilizing techniques and theories in rehabilitation of athletic injuries. Additional one-hour credit for oral presentation of written analysis. Case studies completed under direction of athletic training faculty.

360 Therapeutic Exercise (5)

Prereq: 129. (winter) Concepts and practices associated with the conditioning and reconditioning (rehabilitation) of athletic injuries. 4 lec, 2 lab.

418A Instructional Experiences (1-15)

Prereq: perm. Supervised practice in organizing and teaching activities in college and recreational settings.

418B Seminar in Sports Medicine (2)

Presentations and discussions with a variety of medical specialists and allied health personnel so that students can become familiar with roles and responsibilities of various personnel comprising the sports medicine team.

420 Administration of Athletic Training (3)

Prereq: major, sr. (winter, spring) Introduction to processes necessary for implementation, maintenance, and administration of athletic training programs. 3 lec.

430 Athletic Training Synthesis: Medical Issues (3)

Prereq: 129, 360. Designed to synthesize athletic training knowledge in order to address contemporary entry-level topics and concerns regarding evaluation and recognition of athletic injuries, rehab and management of athletic injuries, emergency care, and ethical dilemmas. 2 lec, 2 lab.

431 Athletic Training Synthesis: Professional Issues (3)

Prereq: 360. Designed to synthesize athletic training knowledge in order to address contemporary entry-level topics and concerns regarding counseling, educational entry, professional preparation, and legal dilemmas. 3 lec.

480 Clinical Experience II (1-2)

Prereq: major, jr. Concentrated elective clinical experience and supervised laboratory in athletic training. (Student may not earn more than 24 total credit hours in any combination of 280, 480, and 490.)

490 Clinical Internship (1-16)

Prereq: major, sr. Elective internship in sports medicine clinical facility. (Student may not earn more than 24 total credit hours in any combination of 280, 480, and 490.)

Physical Education Activity (PED)

These courses are for students wishing to gain competency in an activity. Courses are offered on a pass/fail basis. (Horseback courses are letter graded for students enrolled in the Equine Studies Program on the Southern campus.) While no

limit overall has been set for repeats of PED courses, individual majors, schools, departments, and colleges may limit the number of repeat hours that will count toward graduation.

- 100 Basketball
- 101 Lacrosse
- 102 Softball
- 103 Volleyball I
- 104 Volleyball II
- 105 Ultimate Frisbee
- 110 Dance, Belly I
- 111 Dance, Belly II
- 112 Dance, Belly III
- 113 Dance, Country
- 114 Dance, Social
- 120 Aerobic Conditioning
- 121 Aerobic Dance
- 122 Circuit Fitness
- 123 Conditioning and Weight Training
- 124 Jogging
- 125 Physical Conditioning I
- 126 Physical Conditioning II
- 127 Physical Conditioning III
- 129 Bowling
- 130 Golf I
- 131 Golf II
- 132 Golf III
- 133 Handball I
- 134 Handball II
- 135 Racquetball I
- 136 Racquetball II
- 137 Tennis I
- 138 Tennis II
- 139 Tennis III
- 140 Aqua Aerobics
- 141 Diving I
- 142 Diving II
- 143 Scuba*
- 144 Swimming I
- 145 Swimming II
- 146 Swimming III
- 147 Swimming IV
- 148 Swimming, Synchronized I
- 149 Swimming, Synchronized II
- 150 Swimming, Workouts
- 151 Water Polo
- 152 Water Skiing I*
- 153 Water Skiing II*
- 154 Water Skiing, Competitive*
- 160 Broomball
- 161 Hockey
- 162 Skating I
- 163 Skating II
- 164 Skating, Figure I
- 165 Skating, Figure II
- 166 Horseback Saddle Seat I*
- 167 Horseback Saddle Seat II*
- 168 Horseback Saddle Seat III*
- 170 Horseback Hunt Seat I*
- 171 Horseback Hunt Seat II*
- 172 Horseback Hunt Seat III*
- 173 Horseback Hunt Seat IV*
- 174 Horseback West I*
- 175 Horseback West II*
- 176 Horseback West III*
- 177 Horseback West IV*
- 178 Horseback Jumping I*
- 179 Horseback Jumping II*
- 180 Horseback Judding Seat IV*
- 182 Karate I
- 183 Karate II
- 184 Tae Kwon Do I
- 185 Tae Kwon Do II
- 186 Judo I
- 187 Judo II
- 190 Special Needs PE
- 191 Archery
- 192 Boating
- 193 Badminton
- 194 Horseback Trail Riding*
- 195 Snow Skiing I
- 196 Snow Skiing II

* Requires fee to instructor.

Physical Education and Sport Sciences (PESS)

103 Beginning Swimming (2)

Basic swimming skills. 4 lab.

104 Intermediate Swimming (2)

Instruction in basic strokes and related aquatic skills at intermediate and advanced level. 4 lab.

105 Conditioning for Activity and Organic Efficiency (2)

Prereq: sport sc or PE major. To increase fitness level and knowledge competency of students majoring in sport sciences. 1 lec, 2 lab.

106 Introduction to Human Movement (2)

Introduces student to discipline of human movement and to profession of teaching within discipline. Students begin to develop movement analysis techniques, and learn fundamental of self and other analyses in movement. 1 lec, 2 lab.

107 Modern Dance I (2)

Prereq: sport sc or PE major. (fall) Basic principles of dance technique. Movement progressions involving relationships of time, space, and dynamics. 4 lab.

108 Modern Dance II (2)

Prereq: sport sc or PE major. (arranged) Complex movement progressions, and experimentation in composition. 4 lab.

109 Synchronized Swimming (2)

Prereq: 104, intermediate swimming skill or perm. Focuses on basic principles of 104. Development of simple stunts, sculling, and modified strokes; experimentation in group and individual composition. 4 lab.

110 Aqua Aerobics (2)

Prereq: sport sc or PE major. Designed to help students develop knowledge, skills, and positive attitudes concerning fitness through aquatic exercises. Covers various forms of aquatic exercise, program components, and lap swimming. 4 lab.

115 Rhythmics (2)

Prereq: sport sc, PE, REC, or music therapy major. Practical approach to rhythm fundamentals through various dance forms. 4 lab.

116 Social Forms of Dance (2)

Prereq: 115. Intermediate skills in ballroom, folk, round, mixers, couple, and contra dance.

117 Folk and Square Dance (2)

Prereq: 115. Introduces folk and square dance skills, and allows students majoring in physical education to develop competency in this area of dance. 4 lab.

120 Assault Prevention for Women (2)

Provides knowledge of nature of assault and rape and offers practical and effective skills regarding personal self defense and safety for women. 1 lec, 2 lab.

125 Human Movement and Fitness Perspectives (4)

Introduces students to the basic concepts of human movement and fitness. Students will develop skills to analyze basic human movement as it applies to sport and fitness. Students will also learn the foundation of health related physical fitness, and how to integrate fitness activities into their lifestyles. 2 lec, 4 lab.

141A Archery (2)

Prereq: sport sc major. Increases archery skill of students majoring in sport sciences. 4 lab.

141B Golf (2)

Prereq: sport sc major. Increases golf skill of students majoring in sport sciences. 2 lab.

201 Introduction to Sport Industry (3)

Introduction to the multiple facets of the sport industry. The knowledge gained in this course will provide a foundation for the future study of the industry. 3 lec.

202 Introduction to Physical Education/Teacher Education (3)

Introduces prospective physical educators to the multiple methods of becoming an effective teacher for children in pre-kindergarten (age 3) through grade 12. Observation of and content development in early childhood, middle childhood, and adolescent and young adult physical education programs will be explored. 3 lec.

203 Introduction to Exercise Physiology (3)

Introduces students to the various disciplines of exercise physiology. Emphasizes the disciplines required in various professional applications (fitness, rehabilitation, performance and research) of exercise physiology. 3 lec.

204 History and Principles of Physical Education (4)

Prereq: professional standing in sport sciences. History of sport and physical education from ancient to modern times. Principles underlying physical education in modern program of education are covered. 4 lec.

205 Fundamentals of Movement, Rhythms and Dance (3)

Prereq: professional standing in sport sciences. Introduces students to the disciplines and progressions of teaching human movement, rhythmical activities, and fundamentals of dance in school based physical education programs. Students begin to develop movement analysis techniques, refine personal movement abilities, and begin the process of learning how to teach basic movement skills. 1 lec, 4 lab.

212 Introduction to Coaching (3)

Prereq: soph. Introduction to high school interscholastic athletics including history, structures, job opportunities, and contemporary programs. 3 lec.

213 Youth and Sports (3)

Covers opportunities, controversies, organizations, safety, values, rules, leadership, benefits, and settings of youth sports programs. 3 lec.

215 Practicum in Athletics (2)

Prereq: 212. Supervised field experience designed to involve student in coaching/administrative setting. 4 lab.

218 Life Guard Training (2)

Prereq: current first aid and CPR certificates. Principles and practices of life saving for American Red Cross certification. 4 lab.

220 Water Safety for Instructors (3)

Prereq: current lifeguard training certificate. Includes analysis of swimming, life saving techniques, and teaching practices. 2 lec, 2 lab.

221A Tennis (2)

Prereq: sport sc or PE major. Increases tennis skill of students majoring in sport sciences. 4 lab.

221B Badminton (2)

Prereq: sport sc or PE major. Increases badminton skill of students majoring in sport sciences. 4 lab.

223 Track and Field (2)

Prereq: sport sc or PE major. Track and field activities. 4 lab.

224A Racquetball (2)

Prereq: sport sc or PE major. Increases racquetball skill of students majoring in sport sciences. 4 lab.

224B Wrestling (2)

Prereq: sport sc or PE major. Familiarizes majors with skills and knowledge necessary for successful teaching of wrestling. 4 lab.

225 History of the Sport Industry (4)

Prereq: professional standing in sport sciences. Examines the origin and development of the sport industry in America from the 19th century to the present. 4 lec.

227 First Aid (3)

Presents the knowledge and skills of the American Red Cross Standard First Aid course, including adult CPR. Certification granted upon successful completion. 2 lec., 2 lab.

228 Cardiopulmonary Resuscitation (1)

Presents knowledge and skills of the American Red Cross Community CPR course, including instruction in adult, infant, and child skills. Certification granted upon successful completion. 1 lec.

234 Clinical and Field-Based Experiences in Physical Education (1-4, max 4)

Prereq: 134; 273 or 275; soph only. Supervised practice in organizing, managing, and teaching physical education activities to school-age children in public school and clinical settings.

240A Foundations of Sport and Games in Physical Education I (3)

Prereq: 205. Sport and games are a primary instructional component of physical education programs. This course introduces and provides instruction in a variety of sport skills and game activities that typically occur indoors. Students will receive instruction in basic skills, tactics and strategies of game play, and will be required to apply principles of indoor sports and games at different developmental levels. 6 lab.

240B Foundations of Sport and Games in Physical Education II (3)

Prereq: 205. Sport and games are a primary instructional component of physical education programs. This course introduces and provides instruction in a variety of sport skills and game activities that typically occur outdoors. Students will receive instruction in basic skills, tactics and strategies of game play, and will be required to apply principles of outdoor sports and games at different developmental levels. 6 lab.

247 Fitness Testing (3)

Prereq: professional standing in sport sciences. Allows students to develop the necessary skills required to evaluate health related physical fitness. Emphasizes applied skills that will be gained through hands-on experience. 1 lec., 4 lab.

260A Flag Football (2)

Prereq: sport sc or PE major. Increases flag football competency of students majoring in sport sciences. 4 lab.

260B Team Handball (2)

Prereq: sport sc or PE major. Increases team handball competency of students majoring in sport sciences or PE major. 4 lab.

261 Practicum in Sport Science (1)

Prereq: sport sc major. Lab and field experiences designed to place students in various settings related to their program emphasis. 2 lab.

262A Field Hockey (2)

Prereq: sport sc or PE major. Increases field hockey skill and knowledge of students majoring in sport sciences. 4 lab.

262B Soccer (2)

Prereq: sport sc or PE major. Increases soccer skill and knowledge of students majoring in sport sciences. 4 lab.

263A Basketball (2)

Prereq: sport sc or PE major. Increases basketball skill and knowledge of students majoring in sport sciences. 4 lab.

263B Volleyball (2)

Prereq: sport sc or PE major. Increases volleyball skill and knowledge of students majoring in sport sciences. 4 lab.

264A Softball (2)

Prereq: sport sc or PE major. Increases softball skill and knowledge of students majoring in sport sciences. 4 lab.

264B Lacrosse (2)

Prereq: sport sc or PE major. Increases lacrosse skill and knowledge of students majoring in sport sciences. 4 lab.

265 Diving and Competitive Swimming (2)

Prereq: 104. Familiarizes students with mechanics and performance skills of competitive swimming and diving. 4 lab.

270 Teaching of Physical Education (3)

Prereq: elem ed or early childhood/primary major. Lab and lecture experiences for teaching physical education in elementary school. 2 lec, 2 lab.

273 Movement Education and Fundamental Skills (3)

Prereq: sport sc, PE or REC major; soph. Theory, teaching methods, techniques, and materials in elementary school physical education with emphasis on basic movement education for grades K-3. 2 lec, 2 lab.

274 Sport and Game Skills for Elementary School Children (3)

Theory, techniques, and materials for elementary school physical education program with emphasis on lead-up activities, creative game analysis, and sport and recreational skills for grades 4-6. 2 lec, 2 lab.

275 Elementary School Rhythms and Dance (3)

Rhythmics and dance activities for elementary level, involving movement exploration, creative dance, and traditional dance. 1 lec., 4 lab.

290 Teaching Aerobic Exercise and Dance (4)

Introduces students to area of aerobic dance/exercise, its history, characteristics, and related information necessary to development. 3 lec, 2 lab.

302 Biomechanics (4)

Prereq: BIOS 301 or 302. Analysis of human movement based on anatomical and mechanical principles. 4 lec. (Same as BIOS 352.)

305 Coaching of Swimming (3)

Prereq: 212 or soph. Theory of coaching swimming and diving; analysis of skills, methods, duties, and responsibilities. 3 lec.

310 Principles, Theories and Methods of Teaching Early Childhood Physical Education (6)

Prereq: 240A, 240B. Examines the role of physical education at the early childhood level with emphasis in basic movement education with scope and sequencing for ages 3 through grade 3. Students will refine teaching skills and develop an understanding of the interrelation of curriculum, unit and lesson planning unique to teaching early childhood physical education. Observation and interaction with children through field study under the supervision of faculty and cooperating teachers. 3 lec, 6 lab.

312 Physical Fitness (2)

Prereq: 105. Provides majors with the opportunity to develop physical fitness practices that can be sustained for a lifetime. Allows students to apply principles learned in 105 to reach their optimal level of fitness. 4 lab.

313 Sport Club Management (3)

Prereq: MGT 200, jr. Focuses on application of management theory to a sport business. Emphasizes decision making techniques and communication skills leading to effective planning, organizing, and controlling a sport-related service or product. 3 lec.

314 Coaching Sports for the Disabled (3)

Prereq: jr. Examines scope of coaching techniques, training programs, and principles of competitive sports for disabled people. 2 lec, 2 lab.

318 Coaching of Tennis (3)

Prereq: 212 or soph. Theory of coaching tennis: analysis of skills, strategies, methods, duties, and responsibilities. Limited practical work. 2 lec, 2 lab.

319 Analysis of Current Research in Physical and Motor Development of Athletes (3)

Prereq: 212 or soph. Physiological, anatomical, and kinesiological research finding which maximizes motor performance and minimizes injury. Special emphasis on utilization of research in competitive sports. 3 lec.

320 Coaching of Wrestling (3)

Prereq: 212 or soph. Theory of coaching wrestling: analysis of skills, strategies, methods, duties, and responsibilities. 2 lec., 2 lab.

324 Coaching of Soccer (3)

Prereq: 212 or soph. Theory of coaching soccer: analysis of skills, strategies, methods, duties, and responsibilities. 2 lec., 2 lab.

325 Human Dynamics in Sport (3)

Prereq: 106 or 212. Interpersonal dimensions of coaching and participating in interscholastic athletic programs. 3 lec.

327 Instructor's First Aid (3)

Prereq: 227. Presents all necessary information to conduct and implement an American Red Cross Standard First Aid course. Instructor certification granted upon successful completion. 1 lec, 4 lab.

328 CPR Instructor (3)

Prereq: 228. Presents all necessary information to conduct and implement an American Red Cross Community CPR course. Instructor certification granted upon successful completion. 1 lec. 4 lab.

330 Principles, Theories and Methods of Teaching Middle Childhood Physical Education (6)

Prereq: 310. Examines the role of physical education at the elementary and middle school levels. Emphasis on curriculum development, unit and lesson planning, and methods of instruction. Students develop an understanding of the organization and administration of physical education programs appropriate for grades 4-8. 3 lec, 6 lab.

333 Adapted Physical Education (4)

Prereq: 234; 273 or 274 or 275. Organization of physical activity programs adapted to needs of atypical individuals. 3 lec, 2 lab.

334 Clinical and Field-Based Experiences in Physical Education (1-4, max 4)

Prereq: 134; 273 or 275; jr. only. Supervised practice in organizing, managing, and teaching physical education activities to children in public schools and in clinical settings.

335 Adapted Physical Education for the Special Educator (4)

Prereq: EDSP 271. Designed to offer insight and practical experience in the areas of motor deficiencies of children. Provides for the acquisition of observation skills, motor analysis skills, motor progressions, and the process of adapting skills, activities, and equipment to the motor needs of children with disabilities. 3 lec, 2 lab.

339 Athletic Officiating—Football (3)

Rules, mechanics, and procedures in officiating. Practice under actual game conditions in Intramural Sports Program. 1.5 lec, 2 lab.

340 Athletic Officiating—Basketball (3)

Rules, mechanics, and procedures in officiating. Practice under actual game conditions in Intramural Sports Program. 1.5 lec, 2 lab.

341 Athletic Officiating—Baseball (3)

Rules, mechanics, and procedures in officiating. Practice under actual game conditions in Intramural Sports Program. 1.5 lec, 2 lab.

342 Sports Officiating III (1)

USWLA rules and procedures in officiating lacrosse; or USFHA and Federation rules and procedures in officiating field hockey. Fee required for those taking local, state, or national rating examination. 1 lec.

345 Introduction to Exercise Physiology (4)

Prereq: 105, BIOS 301 or 302. Introduces the basic physiological principles of organ systems and body function during exercise. Special emphasis on the function of the nervous, muscular, cardiovascular, and respiratory systems and how they respond to exercise and exercise conditioning. Application of these principles in examining the optimal means to promote health-related fitness and optimal athletic performance. 4 lec.

347 Exercise Prescription I (3)

Prereq: 247; BIOS 301 or 302. Allows students to develop the knowledge and skills to evaluate the risk of exercise, evaluate fitness levels, write exercise prescriptions and develop exercise programming. 2 lec, 2 lab.

350 Independent Study (1-5)

Prereq: jr, perm. Study and/or research in selected fields related to physical education, athletics, or sports sciences under direction of PESS undergraduate committee and faculty member.

351 Coaching of Golf (2)

Prereq: 212 or soph. Theory of coaching golf: analysis of skills, strategies, methods, duties, and responsibilities. 2 lec, 2 lab.

352 Coaching of Ice Hockey (3)

Prereq: 212 or soph. Theory of coaching ice hockey: analysis of skills, strategies, methods, duties, and responsibilities. 2 lec, 2 lab.

353 Coaching of Lacrosse (3)

Prereq: 212 or soph. Theory of coaching lacrosse: analysis of skills, strategies, methods, duties, and responsibilities. 2 lec, 2 lab.

354 Coaching of Volleyball (3)

Prereq: 212 or soph. Theory of coaching volleyball: analysis of skills, strategies, methods, duties, and responsibilities. 2 lec, 2 lab.

356 Coaching of Field Hockey (3)

Prereq: 212 or soph. Theory of coaching field hockey: analysis of skills, strategies, methods, duties, and responsibilities. 2 lec, 2 lab.

365 Coaching of Basketball (3)

Prereq: 212 or soph. Theory of coaching basketball: analysis of skills, strategies, methods, duties, and responsibilities. 2 lec, 2 lab.

366A Coaching of Baseball (3)

Prereq: 212 or soph. Theory of coaching baseball: analysis of skills, strategies, methods, duties, and responsibilities. 2 lec, 2 lab.

366B Coaching of Softball (3)

Prereq: 212 or soph. Theory of coaching softball: analysis of skills, strategies, methods, duties, and responsibilities. 2 lec, 2 lab.

367 Coaching of Football (3)

Prereq: 212 or soph. Theory of coaching football: analysis of skills, strategies, methods, duties, and responsibilities. 2 lec., 2 lab.

368 Coaching of Track (3)

Prereq: 212 or soph. Theory of coaching track: analysis of skills, strategies, methods, duties, and responsibilities. 2 lec, 2 lab.

370 Principles, Theories and Methods of Teaching Adolescent and Young Adult Physical Education (6)

Prereq: 330. Examines the role of physical education at the adolescent and young adult levels with an emphasis on curriculum development, unit and planning and methods of instruction. Students develop an understanding of the organization and administration of physical education programs appropriate for grades 9-12. 3 lec, 6 lab.

372 Theory and Practice of Sports (3)

Prereq: 2 credits each in individual and team sports. Analysis and teaching progression of individual sport skills. Organizational techniques and practices. Lesson and unit planning. 2 lec, 2 lab.

373 Adapted Aquatics (3)

Prereq: 220. Analysis and teaching progression of aquatic skills and related activities. Organizational techniques and practices. Lesson and unit planning. 2 lec, 2 lab.

376 Athletic Facility Planning and Management (4)

Prereq: jr or sr; professional standing in sport science. Applies the functions of management to the development, operation, and financing of sport facilities. Facilities examined include public and private arenas, coliseums, and stadia. 4 lec.

377 Theory and Practice of Elementary Physical Education (3)

Prereq: 273, 275. Study of scope and sequence of elementary physical education program (K-8), development of understanding for interrelationship of curriculum, unit, and lesson planning, and refinement of teaching skills unique to teaching elementary physical education. 2 lec, 2 lab.

380 Life Guard Training Instructor (2)

Prereq: current lifeguard training certificate. Focuses on the responsibilities of the lifeguard, lifeguard conduct, preventative lifeguarding, emergency plans for all types of facilities, and health and sanitation. 4 lab.

390 Safety Education (4)

Prereq: jr. Preparation for assuming responsibility for programs of safety education and accident prevention in schools, industry, and public services. 4 lec.

391 Risk Management (4)

Prereq: professional standing in sport science. Prepares students to assume responsibility for programs of risk management in the sport industry. Emphasizes the policies, procedures, safety audits, risk reviews, and emergency action plans needed to develop an effective risk management program. 4 lec.

400 Women in Sports (3)

Prereq: jr. Examines the role of play, sports, and games in the life of women. Explores place of women in sports world, and reflects on special attitudes and structures of women's sports. 3 lec.

401 Sport Marketing (4)

Prereq: MKT 202; jr or sr; professional standing in sport science. Provides an overview of the elements of sport sponsorship and licensing. Content includes the rationale and benefits of sponsorship and licensing, sponsorship proposals, licensing program development, and solicitation of sponsors and licensors. 4 lec.

402 Teaching and Curriculum Strategies in Physical Education (4)

Prereq: 372, 377. Discussion and application of selected methods and techniques used in teaching of physical education. 4 lec.

405 Motor Learning (4)

Prereq: jr. Consideration of psychological, sociological, and physiological bases of learning and application of these theories to performance. 4 lec.

406 Organization and Administration of Physical Education (4)

Prereq: jr. Organization and administration of physical education, intramural, and athletic programs in elementary and secondary schools. 4 lec.

408 The Black Athlete and American Sport (3)

Prereq: jr. Explores origins of black athlete's participation in American sport and examines role of black men and women in growth of American sport and physical activity during 19th and 20th centuries. 3 lec.

409 Tests and Measurements (4)

Prereq: PE or comm. health major. Administration and evaluation of tests in health, physical education, and athletics; practice in handling test data by elementary statistical methods. 4 lec.

411 The Olympic Movement (3)

Prereq: jr. Study of origin and development of games from Greek era to modern period. Meaning of Olympism in relation to contemporary summer and winter Olympiads explored. 3 lec.

412 Sports Governance and Ethics (4)

Prereq: 106 or 212. Focuses upon legal questions, public relations, ethics, budgeting, recruiting, crowd control, evaluation, and personnel. 4 lec.

414 Physiology of Exercise (4)

Prereq: BIOS 345 and selected major. Fundamental concepts an application of organ systems responses to exercise; special reference to skeletal muscle metabolism, energy expenditure, cardio-respiratory regulation, and training and environmental adaptations. 4 lec. (Same as BIOS 445.)

415 Physiology of Exercise Lab (3)

Prereq: 414 or concurrent; BIOS 345. 6 lab. (Same as BIOS 446.)

416 Resistance Training: Theory and Application (3)

Prereq: 415. Explores the physiological characteristics of muscle, its adaptations to exercise, and training methods that can be used to produce these adaptations. Emphasizes both theory and application, with hands-on experience. 2 lec, 2 lab.

417 Exercise Prescription (4)

Prereq: 414, 415. Application of anatomy, physiology, and exercise physiology in the evaluation of physical fitness of both normal and special populations. Importance of test results in relation to disease conditions and in writing appropriate exercise prescriptions to promote a healthful life style or provide rehabilitation from previous health problems. 2 lec, 4 lab.

418A Instructional Experiences (1-3)

Prereq: perm. Supervised practice in organizing and teaching activities in college and athletic settings.

418U Athlete Behavior (1)

Prereq: fr. only. (fall) Orientation class for new student-athletes. 1 lec.

418B-E: G-T; V-Z Special Topics Seminars (1-15)

Prereq: perm.

421 Principles of Aging and Physical Activity (4)

Prereq: 125. Designed to assist students to develop knowledge and skills involving physical activities for older adults. Information concerning the effects of the aging process on physical activities, benefits of physical activities, physical activity instructional considerations, principles of physical activity programming, and physical activity strategies are presented. 3 lec, 2 lab.

425 Financial Issues in Sport (4)

Prereq: jr or sr; professional standing in sport sciences. Examines and applies the concepts of financial resource management to the operation of programs in the sport industry. Concepts examined include forms of ownership, taxation, financial analysis, feasibility studies, revenue generation, economic impact studies, and current issues in sport finance. 4 lec.

430 Sport Sponsorship and Licensing (4)

Prereq: 401. Provides an overview of the elements of sport sponsorship and licensing. Content includes the rationale and benefits of sponsorship and licensing, sponsorship proposals, licensing program development, and solicitation of sponsors and licensors. 4 lec.

434 Clinical and Field-Based Experiences in Adapted Physical Education (1-4, max 4)

Prereq: 333. Supervised practice in organizing, managing, and teaching physical education activities to school-age children in public school and clinical settings.

447 Exercise Prescription II (4)

Prereq: 347, 414, 415. Students develop the knowledge and skills to evaluate fitness levels and the risk of exercise, write exercise prescriptions and develop exercise programming focusing on the high risk and diseased population. 3 lec, 2 lab.

455 Administration of Aquatic Facilities (3)

(spring) Prepares students to supervise a facility and provides background for the mechanical functions of a pool and the organization of a total aquatic program. 3 lec.

480 Teaching Adapted Physical Education: Analysis and Description (3)

Prereq: 234, 333. (winter) Methods and materials of teaching-learning process for physical education classroom. 3 lec.

485 Perceptual Motor Development in Children (3)

Prereq: 106 or 405. (spring) Principles and practices in perceptual-motor development as they relate to children's movement experiences. 2 lec, 2 lab.

490 Internship in Sport Sciences (16)

Prereq: sport science major, jr, perm. Elective internship with approved firm, agency hospital, unit, school, or organization.

493 Research Dynamics: Planning, Participation and Actualization of the Research Process (1-6, max 12)

Prereq: major, perm. A hands-on approach to research: developing the idea, establishing the methodology, collecting data, doing the statistical evaluation, and writing the results in publication format.

Recreation Studies (REC)

101	Orienteering	1
102	Advanced Orienteering	1
103	Survival I	1
104	Survival II	1
105	Whitewater Rafting	1
106	Hunting	1
107	Trapshooting (Fee: \$37)	1
108	Technical Climbing and Rappelling	1
109	Advanced Survival	1
111	Cross Country Skiing	1
112	Backpacking I	1
113	Canoeing	1
114	Kayaking	1
115	Ropes	1
116	Rescue Techniques	1
117	Primitive Construction	1

200 An Introduction to Leisure (4)

(fall, winter) Provides student with broad understanding of nature and scope of leisure behavior and resources on which they can build their subsequent specializations. 4 lec.

214 Camping for Special Populations (2)

(spring) Develops and teaches implementation of camping activities for special populations with emphasis on strengths and weaknesses of individual camper. 2 lec.

236 Field Experience in Recreation (1-3)

Prereq: soph, recreation major or minor. Designed to provide sophomore recreation student with opportunity to acquire supervised experiences in skills and techniques involved in differing areas of recreation.

240 Taxidermy I (2)

Prereq: soph. (arranged) Study and practice of methods used to produce specimens that are exact replicas of living animals. Emphasis on birds. 1 lec, 2 lab.

241 Taxidermy II (2)

Prereq: 240. (arranged) Continuation of 240, with major emphasis on game animals and fish. 1 lec, 2 lab.

250 Recreation Leadership (4)

Prereq: soph. Lectures and discussions concerning value of recreation, leadership techniques, and selection of activities. 3 lec., 2 lab.

251 Art and Nature Crafts for Recreation Programs (3)

Prereq: recreation major or minor. (fall, winter) Organization of art and nature crafts program and experiences in use of various craft materials with particular emphasis on nature crafts.

270 Introduction to Therapeutic Recreation Services (4)

(fall) Factors presented will serve as foundation for career or employment in therapeutic services in both public and private settings for disabled, delinquent, and disadvantaged. 4 lec.

275 Recreation for Individuals with Disabilities (4)

Prereq: 200, 250. Presents characteristics and leisure needs of various special populations and techniques for planning and conducting special recreation activities. 4 lec.

290 Recreational Sport Officiating (3)

Prereq: soph. (fall, spring) Provides meaningful, educational experience of practical nature in area of sport officiating. 2 lec, 2 lab.

291 Outdoor Pursuits (3)

(fall) Provides student with basic skills and knowledge to teach selected outdoor activities. 2 lec, 2 lab.

301 Leisure Education and Facilitation Techniques (4)

Prereq: 200, 270. Study of leisure education models and concepts; application and understanding of facilitation techniques in therapeutic recreation services. 3 lec, 2 lab.

310 Program Planning and Facilities for Recreation (5)

Prereq: recreation major or minor. (fall, spring) Concepts and fundamentals of recreation programs, program planning and care, selection, and design of recreation facilities. 5 lec.

311 Expedition Management (3)

Prereq: jr. (winter) Will assist student in planning and competently leading wilderness camping expedition. Will acquaint student with all aspects of expedition leadership. Student will develop and lead expedition in competent, safe manner. 2 lec, 2 lab.

312 Medical Emergency Response (3)

Prereq: 311. Presents advanced knowledge and skills in emergency response and care for injuries, illness, respirator, cardiac, childbirth,

oxygen delivery, and other emergencies.

Students who successfully complete the course will receive American Red Cross emergency response certification. 3 lec, 1 lab.

314 Camping (4)

Prereq: recreation major or minor. (fall, spring) Introduction to and experiences in different methods of camping and various skills associated with camping.

315 Outdoor Education and Recreation (4)

Prereq: recreation major or minor. (fall, spring) Designed to provide student with fundamental knowledge necessary to provide learning experiences in out-of-doors and for teaching necessary skills for outdoor living enjoyment.

336 Field Experiences in Recreation (3)

Prereq: perm. Designed to provide junior recreation student with opportunity to acquire experience in skills and techniques involved in differing areas of recreation.

345 Camp Leadership (2)

(winter, spring) Responsibilities of camp personnel at executive, administrative, supervisory, and functional levels. Includes different types of organized camps and their individual programs.

350 Independent Study (1-5)

Prereq: jr, perm.

370J Writing for Recreation Studies (4) (1J)

Prereq: jr. Allows the student to practice the writing process while investigating current issues and trends in the recreation and leisure field. 4 lec.

376 Practices in Therapeutic Recreation (4)

Prereq: 270, 275. (winter) Study of therapeutic recreation service, principles, and practices in various types of institutions. 3 lec.

377 Administration of Therapeutic Recreation (4)

Prereq: 376. (fall) Assessment and analysis of leisure time activities for the disabled, with emphasis on contributions these activities can make in rehabilitation of those special populations. 3 lec.

381 Management of Recreational Sports (4)

Prereq: soph. Organizing and administering a program of intramural sports for all age levels. 4 lec.

390 Wilderness Survival (3)

(spring) Provides student with basic skills and knowledge to survive in wilderness situation, to cope with wilderness emergencies, and to teach wilderness survival. 3 lec, 1 weekend trip.

418A Instructional Experiences (1-15)

Prereq: perm. Supervised practice in organizing and teaching activities in college and recreational settings.

418B-Z Special Programs in Recreation (1-15)

Prereq: perm. Provides the recreation major or professional unique experience and instruction in specialized topics. Designed as short-term mini-courses, seminars, and specialized workshops. Some may have additional fees attached; check *Schedule of Classes* for information.

430 Principles of Therapeutic Recreation for the Mentally Retarded (3)

(spring) Preparation for presenting activities and evaluating mentally retarded and learning disabled children and youths in areas of body mechanics, physical fitness, games of low organization, sports, rhythms, stunts, tumbling, and recreation activities. 3 lec.

440 Internship in Recreation (16)

Prereq: recreation major or minor, and perm. Supervised professional field work experiences in approved program of recreation.

449 Administration of Community Recreation (4)

Prereq: jr. (winter) Programs and program building; administration of playgrounds, community centers, and recreational activities. 4 lec.

460 Understanding Leisure (4)

(spring) Study of selected leisure theory for purpose of developing recreation programs. 4 lec.

470 Assessment and Documentation in Therapeutic Recreation (4)

Prereq: 376. Designed to prepare students to assess handicapping conditions; to determine consequences of these conditions; and to direct and plan therapeutic activities which contribute to disabled person's maximum recreational functioning. 4 lec.

471 Program Design in Therapeutic Recreation (4)

Prereq: 470. In-depth examination of therapeutic recreation planning and evaluation as it relates to specific programs using a systems theory approach. 4 lec.

472 Trends and Issues in Therapeutic Recreation (4)

Prereq: sr. In-depth investigation of contemporary professional issues and their relationship to current and future development of therapeutic recreation services. 4 lec.

475 Adventure Programming (3)

(spring) Prepares student to plan, organize, and conduct outdoor adventure activities. 3 lec, 1 lab.

Reserve Officers Training

See Aerospace Studies or Military Science.

Russian

See Foreign Languages and Literatures.

Security/Safety Technology (SST)

The following courses for the A.A.S. in security/safety technology are available only on the Chillicothe campus.

101 Introduction to Protective Services (3)

Overview of private security profession. Student will be able to relate private security's function to its proper perspective in today's complex society and to see where private security and its various functions fit into criminal justice system.

110 Physical Security Systems (3)

Physical security requirements and standards. Includes study of various physical security systems plus technical devices employed in industrial, retail, and institutional security operations.

120 Occupational Safety and Health (3)

Analysis and implementation survey of federal laws pertaining to occupational safety and health standards and criteria.

201 Fire Safety and Fire Codes (3)

Function and objective of fire prevention programs, e.g., recognition and correction of fire hazards; enforcement of codes and ordinances; knowledge of federal, state, and local fire laws and codes. Further emphasis on fire prevention and fire protection.

210 Loss Prevention in Modern Retailing (3)
Detailed study of use of proper controls in loss prevention and loss detection in retailing industry. Emphasis on providing students with sound background for determining their needs in such areas as physical security, inventory security, security surveys, personal screening, risk analysis, and loss prevention as total systems approach.

220 Analysis of Security Needs—Survey (3)
Methodology used in making security, e.g., selection of scope, team composition, design of survey, compiling data, evaluation of planning, implementation, and results of corrective measures.

230 Information and Data Systems Security (3)

Introduction to theory and application of automated information data systems. Detailed study of security hazards involved in use of data systems. Laws pertaining to Right to Privacy Act included as part of course content.

240 Security Administration (3)

Introduction to corporate security administration including historical and legal framework for security operations as well as detailed presentations of specific security processes and programs utilized in providing security.

250 Current Problems in Security (3)

Analysis of special problem areas in security such as security education and training, community relations, labor problems, and disaster planning. Other specific areas analyzed for further research by individual students depending upon their interest. These later areas may include bank security, campus security, computer security, hospital security, and various other areas.

260 Analytical Accounting (3)

Specifically designed for security administration majors. Covers areas such as audit tracing, cash flow analysis, inventory system analysis, and other auditing principles used to protect assets and discover losses.

290A–Z Special Area Studies (3–4)

Courses designed to provide flexibility to satisfy needs of particular industry in our area of individual student who would like to pursue further study in specialized area.

Social Work (SW)

101 Introduction to Social Welfare and Social Work (3) (2S)

Provides an overview of a range of social problems and society's response to them through the social service delivery system. The problems and services described include: child abuse and neglect, drug and alcohol abuse, poverty, aging, mental health and illness, corrections, and others. Within this context, various career options and professional roles will be described, including that of social worker.

190 Social Work as a Profession (2)

Prereq: social work major or perm. This course, normally taken concurrently with 101, provides social work majors with a 30-hour field experience to observe operations of social service organization and roles and functions of social workers and other helping professionals. Weekly seminar.

290 Social Welfare as an Institution (4)

Prereq: 101. (fall, winter) Nature of social welfare as social institution, stressing scope of social welfare activity; historical development; value orientation; response to critical social problems, issues in social policy, and emergence of social work as profession.

340 Mental Health and Social Work (4)

Prereq: 101, PSY 332. Explores the history of mental-health policies, stereotypes associated with mental illness, and social work practice based on a strengths model. Service learning is an integral component.

350 Research Methods in Social Work (4)

Prereq: major, PSY 121, jr or perm. General overview of the social work research process, based on the problem solving method. Special emphasis on the evaluation of practice with clients. Examines measurement instruments, sampling procedures, research designs, data collection methods, program evaluation, qualitative research, ethical issues, and the writing of research reports.

380 Child Abuse and Neglect (4)

Prereq: jr or sr plus 18 hrs in social sciences. Examines processes of identification, reporting, referral, and case management of child abuse and neglect cases. Multidisciplinary approach to these processes described.

381 Counseling Older Adults (4)

Prereq: PSY 101 plus jr. Focuses on basic counseling, communication, and intervention skills needed by persons working with aged. Problems specific to later yrs discussed. Field work component provides opportunity for interaction with older adults.

382 Understanding Alcohol Problems and Alcoholism (4)

Prereq: jr or sr. Provides knowledge and understanding of the biopsychosocial aspects of alcohol problems and alcoholism. Examines the causes and consequences of alcohol abuse, diagnostic issues, intervention, treatment, and aftercare. Also the impact of alcoholism on the family and other special groups is explored.

383 Introduction to Social Work Practice Methods (4)

Prereq: major, jr, or perm. Focuses on development of effective social work communication skills as they relate to social work relationship and professional practice.

384 Social Welfare Law (4)

Prereq: 101 or perm. Examines the need for cooperation between the worlds of business and social welfare within the context of the legal system as it addresses the needs of the poor, the elderly, minorities, and families. Focuses on development of interpersonal problem-solving skills and team building, considering both socioeconomic and legal factors.

385 Administration and Supervision in Human Services (4)

Prereq: jr or perm. Focuses on the description, analysis, and application of principles of administration and supervision that are relevant to human service agencies. Examines knowledge and skill bases of effective administration and supervision and applies them to the beginning employee.

390 Social Policy (4)

Prereq: 290 or perm. Examination of social policy stressing policy development; relationships of policy, goals, and organizational structure; and decision-making patterns and role assignments within social welfare organizations and agencies.

393 Dynamics of Human Behavior I (4)

Prereq: major, BIOS 103, PSY 273 or perm. (fall) First in two-course sequence designed to present holistic approach to assessing social functioning with emphasis on human diversity and integration of knowledge of behavior fundamental to practice of social work.

394 Dynamics of Human Behavior II (4)

Prereq: major, 393, PSY 374 or perm. (winter) Expands on 393 and further examines development and functioning of individual within developmental, systems, and ecological framework.

395 Aging in American Society (4)

Prereq: jr, 18 hrs in social sciences. Review of available knowledge on critical issues and problems of aged in America. Attention devoted to social welfare programs and services designed to meet needs of elderly.

396 Social Work Practice I (4)

Prereq: major, 383, 390, 394, perm. (fall) First of three-quarter-sequence practice class. Focuses on context of social work practice, application of social work's ethical value system, communication, and development of analytical skills for engaging in problem-solving process.

397 Social Work Practice II (4)

Prereq: 396, 350, perm. (winter) Further develops the generalist approach to the problem-solving model used in 396 and applies the model to working with groups, families, and communities.

398 Social Work Practice III (4)

Prereq: 397, perm. (spring) Final phases of problem-solving process, evaluation, and termination are examined. Additional topic areas include grantsmanship, teamwork, and effecting organizational change.

490A Social Work Practice (8)

Prereq: major, 383, 390, 394, perm. (fall) 1st of 3-qr sequence offering field placement, seminar, and twice-wkly class. This quarter focuses on context of social work practice, application of social work's ethical value system, communication, and development of analytical skills for engaging in problem-solving process. (Students provide own transportation.)

490B Social Work Practice (10)

Prereq: 490A, 350, perm. (winter) Continuation of field placement with increased time in placement and practice seminar from previous qtr and twice-weekly class. This course further develops the generalist approach to the problem solving model used in 4901A and applies the model to working with groups, families, and communities.

490C Social Work Practice (10)

Prereq: 490B, perm. (spring) Continuation of previous quarter's field placement and practice seminar with twice-weekly class. Final phases of problem-solving process, evaluation, and termination examined. Additional topical areas include: grantsmanship, teamwork, and effecting organizational change. (Students provide own transportation.)

491A Integrative Seminar (2)

Prereq: 383, 390, 394, perm. (fall) First of three-quarter sequence, taken concurrently with 396 and 492A. Integration of field experiences with coursework and personal reflection. Students process activities, questions, and concerns related to the field practicum, develop analytical skills in written assignments about themselves and their organization, and reflect upon practice issues of race, gender, and economics to foster self-understanding and growth.

491B Integrative Seminar (2)

Prereq: 491A, perm. (winter) Second of three-quarter sequence, taken concurrently with 397 and 492B. See 491A for description.

491C Integrative Seminar (2)

Prereq: 491B, perm. (spring) Final quarter of three-quarter sequence, taken concurrently with 398 and 492C. See 491A for description.

492A Field Practicum (3)

Prereq: 383, 390, 394, perm. (fall) First of three-quarter sequence, taken concurrently with 396 and 491A. A three-quarter placement experience during which students begin with observation and gradually progress toward independently assuming the social work roles of teacher, broker, counselor/clinician, and advocate in generalist practice.

492B Field Practicum (4)

Prereq: 492A, perm. (winter) Second of three-quarter sequence, taken concurrently with 397 and 491B.

492C Field Practicum (4)

Prereq: 492B, perm. (spring) Final quarter of three-quarter sequence, taken concurrently with 398 and 491C.

498 Independent Studies and Special Projects in Social Work (1-10, max 10)

Prereq: 12 hrs SW, perm. Student responsible for design and implementation of course of study or special project in area related to social work. Student interested in course must submit proposal for approval by department chair at least 30 days prior to enrollment in course.

Sociology (SOC)

101 Introduction to Sociology (5) (25)

Nature of human society and factors affecting its development. Fundamental concepts of sociology: culture, personality, socialization, social organization, groups, institutions.

201 Contemporary Social Problems (4) (25)

Prereq: 101 or soph or above. Sociological perspectives on social problems considered. Specific social problems analyzed may include problems related to crime, sexual inequality, poverty, minority groups, drug and alcohol abuse, mental illness, environment, and others.

210 Introduction to Social Psychology (4)

Prereq: 101. Patterning of individual behavior from social interactions. Analysis of individual-group relationships in various social settings. Current theory and research in social psychology.

211 Collective Behavior (4)

Prereq: 101. Study of collective behavior including the formation of crowds; behavior in crowds; behavior in panics, disasters, fads, and riots; and the impact of collective behavior on society.

220 Introduction to the Family (4)

Prereq: 101. Emphasis on American family and how it has been changing. Topics include interaction within family, family in relation to other institutions, mate selection, marriage and its alternatives, family disorganization, and future of American family.

230 Sociology of Poverty (4)

Prereq: 101. Critical examination of theories of poverty, how poverty is defined and measured, theoretical implications of research on poor, consequences of poverty, and strategies to fight poverty.

231 Sociology of Health and Health Care (4)

Prereq: 101. Examination of social definitions of health and disease, distributions of health and disease, and health care delivery. Particular attention devoted to medical education, various health care delivery systems, and contemporary social issues in medicine.

233 Sociology of Sport (4)

Prereq: 101. Analysis of social aspects of sport, with emphasis on interrelationship of sport and society. Focuses on topics such as social values, education, sport roles, religion, socialization, mass media, sexism, and racism; oriented to student with interest in sports.

240 The Future Society (4)

Prereq: 101. Outline of possible futures of society by projection from baseline data on population growth and mobility; patterns of resource and energy consumption; quantitative and qualitative dimensions of modification of human habitat; evolution of technology; and nature of human culture and social structure as they relate to above. Students will have opportunity to speculate on society of future.

260 Criminal Justice (4)

Prereq: 101. Examination of structures and decision processes of agencies that deal with crime and criminal offenders. An emphasis is placed on how practice is based on politically derived public policies, and how sociology can be used to analyze the practice of these agencies. Topics include criminal law, policing, court systems, sentencing, and corrections.

305 Readings in Sociology (1-6, max 6)

Prereq: 16 hrs SOC and perm. Independent directed readings designed to expand student's understanding in selected area of interest.

309 Sociology of Appalachia (4)

Prereq: 8 hrs SOC, including 101. Intensive study of Appalachia from sociological perspective. Emphasis on population of Appalachia (number and distribution of inhabitants, characteristics of population, vital processes and migration), culture of rural poverty, acceptance of innovation and social change in Appalachia, major social institutions in area, and community power structure in Appalachia.

315 Social Identities (4)

Prereq: 8 hrs SOC, including 101. Examines the diversity and complexity of social relationships between the person and society in terms of identity formation. Focus will include levels of socialization and their influence on the individual as a member of mass society.

327 Sociology of Education (4)

Prereq: 8 hrs SOC, including 101. School as social institution in relation to community and development of child; comparative systems of education; issues of access and inequality in delivery of educational services.

329 Race and Ethnic Relations in the United States (4)

Prereq: 8 hrs SOC, including 101. Racial and ethnic problems in America; causes and consequences of prejudice and discrimination.

331 Class and Social Inequality (4)

Prereq: 8 hrs SOC, including 101. Causes and consequences of class and social inequality in selected societies. Critical examination of ideologies that claim to justify inequality.

334 Sociology of Aging (4)

Prereq: 8 hrs SOC, including 101. General introduction to social gerontology with emphasis on normal aspects of aging. Major emphasis on sociological dimensions of aging in context of such areas as sociodemographics of aging populations, values, roles, norms, self-concept, age stratification, aging patterns of minority groups, and application of current sociological theories of aging.

340 Human Population Ecology (4)

Prereq: 8 hrs SOC, including 101. Study of the relations among fertility, morbidity, mortality, and migration in selected human populations, and ecological, natural resource, and cultural variables which sustain and limit those populations.

351 Elementary Research Techniques (4)

Prereq: 8 hrs SOC, including 101. Research techniques in sociology. Research design; collection, recording, and analysis of data.

352 Field Studies in Sociology (1-10)

Prereq: 351 and perm. Planning, execution, and writeup of empirical study, utilizing skills developed in 351. Limited class meetings, conferences with instructor, research report.

356J Writing in Sociology and Anthropology (4) (1J)

Prereq: 13 hrs sociology and/or anthropology, or jr and perm. Jr-level composition course for sociology and anthropology majors and students in related fields. Combines writing instruction with consideration of substantive social science topic. Students try various styles of social science writing (book reviews; grant proposals; field notes; interviews; etc.).

361 Deviant Behavior (4)

Prereq: 8 hrs SOC, including 101. Theory and research concerning major types of deviant behavior and societal reaction to such things as criminality, suicide, drug addiction, and mental disorders. Causes and consequences of deviant behavior.

362 Criminology (4)

Prereq: 260. Theories and research in criminal behavior and societal reaction to criminality. Causes and consequences of crime.

363 Juvenile Delinquency (4)

Prereq: 260. Theories and research in delinquency. Causes and consequences of delinquent behavior among juveniles.

365 Sociology of Mental Illness (4)

Prereq: 8 hrs SOC, including 101. Study of social and cultural foundations of mental illness, including review of historic and contemporary definitions of madness and treatment of mental illness. Distribution of mental illness in population and social factors related thereto. Nature of commitment process and legal, moral, and social implications of commitment. Examination of legal processes pertaining to criminal insanity.

367 Corporate and Governmental Crime (4)

Prereq: 8 hrs SOC. Examination of the nature, extent, and distribution of corporate, governmental, and other forms of white-collar crime. Practical issues of conducting research in these areas and the application of theory to specific cases. Particular instances of corporate and governmental crime include insider trading, the Iran-Contra affair, and the Ford Pinto case.

403 Development of Sociological Thought (4)

Prereq: 12 hrs SOC, including 101, or perm. Major sociological concerns and concepts in relation to their social-historical setting. Special emphasis on sociological thought in 18th and 19th centuries.

404 Modern Sociological Theory (4)

Prereq: 12 hrs SOC, including 101, or perm. Critical examination of major sociological conceptual frameworks in 20th century.

406 Proseminar in Sociology (4)

Prereq: 20 hrs SOC. Critical examination of selected theoretical and research problems. Primarily for advanced students in sociology.

408 Latin American Society (4)

Prereq: 12 hrs SOC or prev course on Latin America or perm. Intensive study of Latin American society from sociological perspective. Emphasis on contemporary Latin American values, population problems, human-land relations, levels and standard of living, social institutions, urbanization, and social change.

412 Public Opinion Processes (4)

Prereq: 12 hrs SOC, including 101, or perm. Attitudes and opinions in relation to formation of public opinion; political socialization and participation; social status, reference groups, decision making; role of mass media.

413 Mass Communication (4)

Prereq: 12 hrs SOC, including 101, or perm. Personal and social functions of content in newspapers, radio, television, and film. Types of audiences and communication effects. Organization and control of mass media and problems in evaluation.

414 Contemporary Social Movements (4)

Prereq: 12 SOC, including 101, or perm. Organized movements resulting in major social changes: revolutionary, nationalistic, reform, religious; agitation, leadership, ideology; case studies of typical movements.

416 Society and the Individual (4)

Prereq: 12 hrs SOC, including 101, or perm. Exploration of compatibilities and/or contradictions in psychological systems, culture, and social structure.

419 Group Processes (4)

Prereq: 12 hrs SOC, including 101, or perm. Major theories and methods for study of small groups as units of social systems. Communication patterns, role definition, status processes, and solidarity are among topics covered. Current research literature is stressed.

421 Comparative Studies of Family (4)

Prereq: 12 hrs SOC, including 101. The institution of marriage and family will be examined and analyzed with regard to families from different cultural, racial, and ethnic backgrounds. Special emphasis on the significance of social and cultural determinants of family life in the United States and internationally.

422 The American Family System (4)

Prereq: 12 hrs SOC, including 101. Development of the family system throughout history with an emphasis on how changing patterns and conditions led to the formation of the American family. Problems and challenges, both at the micro and macro levels, faced by the American family today are also examined.

424 Urban Sociology (4)

Prereq: 12 hrs SOC, including 101, or perm. Historical development and recent emergence of city as dominant feature of modern social life. Special emphasis upon demographic and ecological patterns and social organization of urban region.

425 Sociology of Food Production (4)

Prereq: 12 hrs SOC, including 101, or perm. Interest is in the social organization of the production of food and fiber and its evolution. Also examined are historical developments and current trends in populations and settlement patterns in the U.S. and in Third World nations as they are influenced by a changing agricultural technology.

428 Sociology of Religion (4)

Prereq: 12 hrs SOC, including 101, or perm. Inter-relationship between religious institution and social structure from comparative perspective and with particular reference to American society.

429 Sociology of Race, Ethnicity, and Class (4)

Prereq: 12 hours SOC, including 329 or 331. This course is designed with a concern for understanding racism and classism at the macro level of analysis. An interpretation of social forces affecting race and ethnicity as determinants of social class will be covered. The course will enhance an understanding of racial and ethnic diversity.

430 Sociology of Organization (4)

Prereq: 12 hrs SOC, including 101, or perm. Concentrates on structure and process of formal organizations. Modern society dominated by giant bureaucracies. We shall study these bureaucracies in detail. Various sociological perspectives for viewing organizations considered and evaluated. Impact of organizations on individuals discussed and problems of living in society dominated by organizations treated in depth.

432 Political Sociology (4)

Prereq: 12 hrs SOC, including 101, or perm. Social and cultural basis of influence, power, and authority. Emphasis upon informal aspects of political process in groups and institutions other than government.

433 Sociology of Occupations and Professions (4)

Prereq: 12 hrs SOC, including 101, or perm. Professionalism as characteristic of modern economic and industrial complexes; popular conception and modern theory; social and technological preconditions; occupation-profession continuum; components, barriers, and strategy; mock-professionalism; motivation and satisfaction; controls; professionalism in particular professions.

435 Sociology of the Welfare State (4)

Prereq: 12 hrs SOC, including 101, or perm. Introduces students to major theoretical perspectives in the sociology of the welfare state, including industrialist, neo-Marxist, social-democratic, and "independent-state" perspectives. Focuses on how proponents of these sociological research perspectives deal with the emergence, organization, growth, and contemporary issues of the U.S. social welfare systems. Also some attention to the social welfare systems of Sweden and other European countries.

450 Data Analysis (4)

Prereq: 351 or perm. This course develops the ability to analyze research data in the social sciences. The linkages among measurement, statistics, and interpretation of results in social research will be explored. Unscheduled computer laboratory commitment is required (not open to those with credit for CS 322).

453 Research Problems in Sociology (2-6)

Prereq: 20 hrs SOC, including 351, and written perm prior to registration. Individual research in specific problem areas in which student has demonstrated ability and interest.

464 Law and Social Control (4)

Prereq: 12 hrs SOC, including 101, or perm. Explores the nature of institutional control and sociocultural constraint as they affect human behavior. Issues covered include the development of formal control mechanisms in societies, the binding force and authority of law, precursors of legislative and judicial law, the effectiveness of formal control mechanisms for reducing specific behaviors, how administrative agencies increase regulation of daily life and "net widening" occurs, and law's effectiveness as a social change agent. Reading material covers the U.S. and some other societies.

465 Social Change (4)

Prereq: 12 hrs SOC, including 101, or perm. Dynamics and processes by which social change takes place; major theories of change; industrialization and modernization; social evolution and revolution; planned change; social impact of change.

466 Penology (4)

Prereq: 12 hrs SOC, including 362. Examination of history, operation, and problems of punishment. Patterns of prison organization, inmate group structure, personnel organization, and racism examined. Purpose and effectiveness of penal institutions described. Prisons, juvenile institutions, parole, halfway houses, and alternatives to punishment studied.

467 Violence Against Women (4)

Prereq: 16 hrs SOC. Examines related forms of violence where women are the predominant victims: forcible rape, marital rape, incest, spousal assault, date rape and assault, and sexual harassment. Role of pornography will be examined. Emphasis placed upon current theoretical and empirical findings and developments.

470 Sociology of Gender (4)

Prereq: 12 hrs SOC, including 101, or perm. Examination of social and historical factors that have kept women subordinate to men in family and prevented them from achieving equality in labor force. Also explores prospects for change.

471 Gender and Justice (4)

Prereq: 12 hrs SOC. Explores how the interpretation and application of criminal law reflects assumptions about men's and women's natures, appropriate roles, and positions in society. Readings examine changes and stability in the prosecution of violence against women; the prosecution, sentencing, and correction of women offenders; women's and men's access to the profession of law and other legal positions; and conceptions of justice. Readings highlight how social structure and interpersonal interaction contribute to legal gender effects that vary across class and race.

495 Internship in Criminology (5-10)

Prereq: sr criminology major and perm. Provides internship experience for students majoring in pre-criminology/sociology. Students will have opportunity to apply social science knowledge and methodologies and to gain direct job-related experience in criminal justice related agency.

Southeast Asian Studies

See International Studies

Spanish

See Foreign Languages and Literatures.

Swahili

See Foreign Languages and Literatures.

Telecommunications (TCOM)
100 Telecommunications and Global Living (4)

The course exposes entering freshman in the School of Telecommunications to the use of telecommunications as a means of exploring, analyzing, and responding to the social world. It introduces freshman to the nature of the field and its cultural implications, and presents the structure and operation of the school and its programs.

105 Introduction to Mass Communication (4) (25)

All forms of mass communication including newspapers, magazines, radio-television, book publishing, public relations, advertising, and photojournalism. Begins with analysis of communication process and ends with media career opportunities.

110 Telecommunications Writing and Production Planning (4)

Introduction to nondramatic script writing in telecommunications. Examination of elements of preproduction preparation.

184 TV/Film Comedy (4)

Analyzes media comedy, including theories of humor and types, styles, techniques, and varieties of TV and film comedy from the silent-movie greats through comedy teams, slapstick, sentimental, screwball, and situation comedies.

170 Media Perspectives (4)

Studies role of electronic mass media in American popular culture through examination of uses, forms, themes, and implicit values. Combines lecture, discussion, and analysis of personal media uses.

200B Audio Production (4)

Prereq: 110, C or better in 200A. Introduction to basic audio theory and production skills, including console operation, editing, and mixing. 2 lec, 4 lab.

200C Video Production I (4)

Prereq: 100, C or better in 200A. Introduction to basic video production skills and aesthetics. 2 lec, 4 lab.

201 Media, Culture, and Technology I (4)

Prereq: 110 and soph. Examines the structure, function, and social impact of the major forms of mass media in the United States. The course will give students an understanding of the role of the media in society and provide them with a foundation for becoming critical media users and practitioners.

202 Media, Culture, and Technology II (4)

Prereq: 201 and soph. Examines the structure, function, and social impact of the major forms of electronic mass media in the increasingly global economy. The course will give students an understanding of the media in society and provide them with a foundation for becoming critical media users and practitioners.

223 Computer Animation I (4)

Basic elements of video application of computer technology. Beginning graphics and animation.

Regardless of your major, you must complete TCOM 110, 201, and 202 in addition to any stated prerequisites before you will be allowed to enroll in TCOM courses above the 300 level.

308 Technical Bases of Telecommunications (4)

Prereq: 202 or perm. Electronic principles of reproduction and transmission of sounds and images; functions of audio and video equipment.

313 Audio Field Production (4)

Prereq: 200B, 202 or perm. Location audio production techniques, including planning, acoustics, live mixing, interviewing, and feature production.

317 TV Studio Operations (2)

Prereq: 200C, 202 or perm. Practical video studio experience as a member of production crew for magazine show or Athens Video Works programs.

318 Video Production II (4)

Prereq: 202 or perm, 317, jr. Multicamera producing and directing. Lab experience in production of original studio programming.

319 Video Production III (4)

Prereq: 202 or perm, 308, 318, and perm. Producing and directing of original video productions using single-camera "film style" technique. Includes all phases of production process from concept to post production.

320 Television Lighting and Staging (4)

Prereq: 202 or perm, jr. Tools and techniques for effective television lighting and set design and use. Experience in use of lighting plots, scrims and flags, gels, meters, waveform monitors, and vectorscopes. Construction of simple set pieces.

323 Computer Animation II (4)

Prereq: 202 or perm, 223. Advanced animation and computerized graphic design for video.

329 Single Camera Narrative Crew (1-4)

Prereq: perm. Students serve in crew positions for video production of projects directed and produced by advanced production undergraduates.

331 Telecommunications Writing (4)

Prereq: 202 or perm. Writing for a variety of short form broadcast formats, including radio and television features, talk shows, documentaries, and instructional programs.

355 Broadcast and Cable Programming (4)

Prereq: 202 or perm, jr. Broadcast and cable programming principles and practices; analysis and evaluation of programs and program formats.

360 Telecommunications Management (4)

Prereq: 202 or perm, 355. Intensive overview of bases of telecommunications management; includes concepts relating to management theory, personnel motivation, organizational communication, and management's relationship to various aspects of organizational operation.

367 World Broadcasting (4)

Prereq: 202 or perm, jr. Analysis of national telecommunications systems in terms of relevant political, social, economic, and cultural factors.

370 Mass Communication Theories (4)

Prereq: 202 or perm, jr. Readings course surveying literature in mass communication theory. Special emphasis on telecommunications.

371 Effects of Mass Communications (4)

Prereq: 202 or perm, jr and 370. Readings course designed to acquaint students with major areas of experimental research in individual and social effects of mass media.

384 Media Criticism (4)

Prereq: 202 or perm, jr. Survey of contemporary methods of critical analysis as applied to television. Screenings include television programs of past, present, avant garde, mainstream.

390 On-Campus Practicum (1)

Prereq: TCOM major. Practical experience in Ohio University telecommunications facilities, including the All Campus Radio Network, Athens Video Works, and the Telecommunications Center training program.

391 Off-Campus Practicum (1)

Prereq: TCOM major. Practical experience in offcampus media facilities. May be taken during quarter breaks or in summer. Students are required to submit a proposal and work at least 40 hours.

405 Research Internship (1-9)

Prereq: 202 or perm. Opportunity for student to implement and complete major research study under supervision.

413 Studio Audio Production I (4)

Prereq: 202 or perm, 308, 313, jr. Advanced studio production techniques for audio, with introduction to analog and digital multitrack recording. Operational aspects of recording studios including typical equipment set-ups, ancillary equipment, microphone techniques, and equipment maintenance. Aesthetic topics as they relate to media, music, and dramatic production.

414 Studio Audio Production II (3)

Prereq: 202, 413 and perm. Introduction to desktop audio production using Digidesign's Pro Tools hard disk recording system. Study of the operational aspects of the Macintosh computer platform. Music, media, and audio post-production for video will be covered.

415 Studio Audio Production III (4)

Prereq: 202, 414 and perm. Laboratory experience in advanced audio for video incorporating SMPTE synchronization, multitrack recording, and New England Digital's Synclavier music system.

418 Producing for Video (4)

Prereq: 202 or perm, 318. Developing programs for commercial, public, and corporate television. Covers program research, development, and testing of program concepts, and the production process.

419 Video Production III B (4)

Prereq: 202 or perm, 318. Special projects in dramatic production for visual media.

421 Nonbroadcast Video Systems (4)

Prereq: 200C, 202 or perm, jr. Study of use and management of telecommunications media in corporate, industrial, medical, educational, military, governmental, and public service institutions.

430 Script Analysis (4)

Prereq: 202 or perm, jr. Analysis of narrative media scripts, programs, and films with special concentration on their construction, audience response, and factors in effectiveness.

431 Screenwriting for Film and Television (4)

Prereq: 202, jr. Writing and critique of form, structure, and presentation of dramatic programs, series, and films.

432 Advanced Screenwriting for Film and Television (4)

Prereq: 202 or perm. Advanced writing course in which the experienced student creates substantive scripts.

440 Public Telecommunication (4)

Prereq: 202 or perm, sr. Historical development, current status, and challenges to public broadcasting.

453 Telecommunications Law and Regulations (4)

Prereq: 202 or perm, jr. Sociopolitical control of telecommunications; effects of law and regulations upon telecommunications policy and operation.

454 Personal Values in Telecommunications (4)

Prereq: 202 or perm, jr. Explores the nature of personal values and surveys the values that have shaped and are shaping American culture. Examines the role of the individual within media institutions and media within American culture.

459 Audience Research (4)

Prereq: 202 or perm, jr. Various methods, techniques, and applications of audience study in broadcasting and cable; includes study of current rating services.

461 Telecommunications Financial Management (4)

Prereq: 202 or perm, 360 and MGT sequence. Consideration of fiscal problems in operation of radio, television, and cable industries, with special emphasis on economics and financial policies.

462 Broadcast and Cable Sales Management (4)

Prereq: 202 or perm, 360 and MGT sequence. Consideration of policies and practices with reference to sales management in radio, television, and cable.

463 New Technology (4)

Prereq: 202 or perm, sr. Examination of emerging technologies of telecommunications, their origins, audiences, regulations, interrelations with other media, and specific applications.

464 Cable Communication (4)

Prereq: sr. Critical examination of cable industry, including technical aspects; franchising; programming; local, state, and federal regulation; public interest service; and cable overseas.

465 Satellite Communications (4)

Prereq: 202 or perm, sr. Role of satellites in global communications from historical, technical, regulatory, economic, political, and programmatic perspectives.

466 Technology, Communication, and Culture (4)

Prereq: 202 or perm, sr. Examines the ways in which communication technologies shape and structure a culture and the ways in which a culture, in turn, uses these technologies first to stabilize and second to discover meaning.

475 Politics and the Electronic Media (4)

Prereq: 202 or perm, jr. Examines role of electronic media in election campaigns through study of campaign strategy, polling, commercial advertising, and news coverage.

479 History of Broadcasting (4)

Prereq: 202 or perm, jr. Development of telecommunications industry from its origins to the present.

481 Women in Media (4)

Prereq: 202 or perm, jr. Examines presentation of women in media through experiential exploration of individual attitudes and values with respect to culture, sexism, and content analysis of media.

482 Documentary Genres (4)

Prereq: 202 or perm, jr. Explores the various genres of documentary video and film with a particular emphasis on television documentary and recent video works. Deals with such topics as historical development, factuality and truthfulness, objectivity, and ethics. Assignments and discussion are based on an extensive schedule of screenings.

486 Colloquium in Telecommunications (1-5)

Prereq: 202 or perm. Intensive study of special topics in field of telecommunications.

490 Internship in Telecommunications (2-8)

Prereq: 202 or perm. Telecommunications experience under auspices of cooperating organization, with paper and journal submitted detailing intern's experiences. Only 4 hrs can be used to satisfy TCOM electives.

497 Independent Production Projects (1-4, max 12)

Prereq: perm and written proposal. Independent projects in audio and video production.

498 Special Problems (1-4, max 12)

Prereq: written proposal and perm.

499 Independent Readings in Telecommunications (1-4, max 12)

Prereq: written proposal and perm.

Theater (THAR)

The following courses of instruction in theater provide further clarification of the curricular requirements and models outlined in the School of Theater section of College of Fine Arts under Colleges and Curricula. All theater majors maintain close contact with their assigned advisor for guidance and clarification in programming. If you have not been assigned an advisor, contact the School of Theater office on the third floor of Kantner Hall. Further information concerning course listings is available from the School of Theater office.

090 Lunchbag Theater Seminar Series (0)

Seminar and discussion about trends in theater scholarship, production, and performance techniques. May be repeated.

101 Introduction and Orientation to the Theater as a Profession (1)

(fall) Acquaints theater majors and other interested students with professional theater. Examines varieties of theater institutions (educational, commercial, regional, etc.), role of administrator, producer, and director and historical background for state of American theater.

102 Introduction and Orientation to the Theater as a Profession (1)

(winter) Continuation of 101 and 102 with particular emphasis on training and job opportunities for actors, scene designers, costume designers, and lighting designers.

103 Introduction and Orientation to the Theater as a Profession (1)

(spring) Continuation of 101 and 102 with particular emphasis on training and job opportunities for theater managers and arts administrators (state managers, technical directors, house managers, business managers); training in other countries, history, purpose, and present function of the theater unions; important theater journals and associations; and specialized training for related theater fields.

105 Practicum in Management (1-4)

Prereq: perm. Supervised lab practice in problems of theater publicity, finance, and house management. May be repeated.

110 Introduction to Performance (2)

Prereq: theater major. Introductory study of acting and actor. Emphasizes preparation of self and text, exploration of space, development of physical and vocal freedom through improvisation and theater games.

111 Improvisation I (2)

Prereq: theater major. (winter) Verbal and non-verbal improvisation. Emphasis on presence, spontaneity, action, and invention through exercises and improvisations.

112 Introduction to Performance Warm-up (2)

(spring) Introduction to the study and practice of the actor's physical and vocal warm-up for rehearsal, training, and performance.

113 Acting Fundamentals I (4)

Prereq: nontheater major. Introductory study of acting and actor. Emphasizes preparation of self and text, exploration of space, and development of physical and vocal freedom through improvisation and theater games. This course replaces THAR 110Y

120 Fundamentals of Directing (2)

Prereq: theater major. Introduction to the principles and practice of directing for theater.

130 Design Principles for the Stage (3)

(spring) Principles of scenography design. 2 lec, 1 lab.

131 Practical Elements of Stagecraft (3)

(fall) Principles of technical production. 2 lec, 1 lab.

135 Practicum in Production Design (1-4)

Prereq: perm. Supervised lab practice in design and execution of scenery, lighting, costumes, properties, and sound. May be repeated.

150 Viewing Performance (2)

Integrates classroom and student life activities at the University by combining the OU Artist Series and major productions of the schools of Comparative Arts, Music, Dance, and Theater with seminar course dealing with characteristics of the medium and artistic concerns. A two-hour seminar precedes and follows each of the four performances. No credit to those with credit for CA 150, DANC 150, or MUS 150.

151 Fundamentals of Playwriting (3)

Prereq: theater major. Introduction to the principles and practices of dramatic writing.

170 The Theater Experience (4) (2H)

Exploration of nature and function of theater as art form through exploration of performer/space/audience interrelationship. Attendance at selected rehearsals and performances of Ohio University Theater productions augment lecture and discussion sessions. Attendance at selected professional theatrical performances may be included.

171 Play Analysis (3) (2H)

Prereq: 170. (fall) Introduction to text analysis based on premise that understanding of play's text is important step toward understanding both performance of that play and means by which that performance is created. Attendance at Ohio University Theater productions is important augmentation to class lectures and group discussions.

172 Elements of Performance (3)

Prereq: theater major. (fall) Introduction to the elements of performance that create theater and drama, including text, performer, spectacle, spectator, and performance space. The emphasis is on the analysis of the text, how the text works as part of the performance, and how the text is brought to life in performance. Attendance at OU Theater productions is required.

179 Theater Arts and Drama Workshop I (2)

Prereq: 1st year theater arts and drama major; perm. A workshop designed specifically for majors in theater arts and drama that brings together the wide variety of theater interests of the theater arts and drama students. The topic in this first of the three-year sequence is the relationship between theater space and performance.

201 Play Production (4)

A study of all the areas associated with the production of a play. Students have the opportunity to apply classroom theory in a practical production environment.

205 Practicum in Management (1-4)

Prereq: perm. Supervised lab practice in problems of theater publicity, finance, and house management. May be repeated.

210 Acting I (4)

Prereq: theater major and perm. (fall) Principles and techniques of acting with emphasis on playing action (Stanislavsky). Self-discovery, warm-up techniques, theater games, improvisation, monologue exercises, preliminary scoring techniques, and script analysis techniques for actors underline this introduction.

211 Acting II (4)

Prereq: theater major and perm. (winter, spring) Principles and techniques of acting with major emphasis on action and characterization. Scenes and monologues from American and other modern and contemporary drama.

212 Acting III (4)

Prereq: major, 210 or 211, and perm. (spring) Long duet scenes, multi-character scenes, and short plays for study and performance. Grad directors and public performances are frequently incorporated into final work.

213 Acting Fundamentals II (4)

Prereq: 110Y; nonmajor. Study of acting and the actor from the point of view of strengthening concentration and commitment to performance tasks; introduces principles of text and character scoring.

215 Practicum in Acting (1-4)

Prereq: soph, audition. Supervised lab practice in rehearsal and public performance of roles. May be repeated.

216 Introduction to Stage Movement (2, max 4)

Prereq: theater major or perm. (fall) Introduction to physical and movement elements of the actor's craft and stage performance, including neutral presence, alignment, walking, and availability. May be repeated.

217 Introduction to Voice (2, max 6)

Prereq: theater major or perm. (fall) Individual and group instruction in basic elements of voice training for the stage. May be repeated.

218A Voice/Speech Training for

Broadcasters: Lesaac Approach (2)
(fall, winter) Group and individual instruction in basic elements of vocal training through Lesaac system.

218B Voice/Speech Training for

Broadcasters: Lesaac Approach (2)
Prereq: 218A. (winter, spring) Continuation of 218A; see 218A for description; must be taken in sequence.

218C Voice/Speech Training for

Broadcasters: Lesaac Approach (2)
Prereq: 218B. (spring) Continuation of 218A–218B; see 218A for description; must be taken in sequence.

220 Introduction to Directing (4)

Prereq: 210. Introduction to the process of directing for the theater. Focuses primarily on the function and responsibilities of the director. Intended for not only those interested in directing, but all who are involved in the process of creating theater, whether they be actors, playwrights, or designers.

230 Stagecraft: Scenery (3)

Prereq: 130. (fall) Procedures and practice in theatrical production; practical experience.

231 Stagecraft: Lighting (3)

Prereq: 131. (winter) Procedures and practice in theatrical production; practical experience.

232 Stagecraft: Costume (3)

Prereq: 131. (spring) Procedures and practices in theatrical production; practical experience.

233 Theatrical Design Skills (3)

Prereq: 130, 131, 132. (fall) An introduction to fundamental design skills, visual research, drafting, model construction, and script analysis as applied to design.

235 Practicum in Production Design (1–4)

Prereq: perm. Supervised lab practice in design and execution of scenery, lighting, costumes, properties, and sound. May be repeated.

237 Basic Makeup (1)

Theory and practice of stage makeup. 1 lec, 1 lab.

250 Playwriting I (4)

Prereq: 151. Introduction to theories of playwriting in particular, and dramatic writing in general. Students will be introduced to basic structure, idea development, character and plot development.

270 Theater History I (4)

(fall) Development of theater and drama in pre-historic, Greek, and Roman periods. No credit to those with credit for CA 270.

271 Theater History II (4) (2H)

(winter) Development of theater and drama in medieval and Renaissance periods. No credit to those with credit for CA 271.

272 Theater History III (4) (2H)

(spring) Development of theater and drama from Renaissance to modern. No credit to those with credit for CA 272.

279 Theater Arts and Drama Workshop II (2)

Prereq: 2nd year theater arts and drama major; perm. Continuation of process work begun in the first year of training. The topic in this second year is an in-depth, performance-oriented study of a specific script.

297T Theater Tutorial (1–15)

Prereq: perm. Subject matter of course arranged by tutorial student in consultation with School of Theater tutorial advisor.

298T Theater Tutorial (1–15)

Prereq: Honors Tutorial. See description for 297T.

299T Theater Tutorial (1–15)

Prereq: Honors Tutorial. See description for 297T.

305 Practicum in Management (1–4)

Prereq: perm. Supervised lab practice in problems of theater publicity, finance, and house management. May be repeated.

310 Audition Technique and Practice (3)

Prereq: performance major or perm. (fall) Preparation of audition materials, experience in various audition spaces, development of techniques for cold reading, solo and duet, "scene of choice," and the development of positive attitudes toward the audition.

311 Improvisation II (2)

Prereq: performance major or perm. (winter) Advanced exploration of nonscripted performance modes and creative presence through improvisations and exercises.

312 Scene Study I (2–4)

Prereq: performance major or perm. (spring) Advanced undergraduate actors rehearse and perform in scenes or short plays, sometimes directed by faculty or 2nd-yr grad directors.

313 Acting Studies I (4)

Prereq: 210Y; nonmajor. Continuation of work begun in 210Y with special application to scene work.

314 Theater Performance: Selected Topics (2–3)

Prereq: performance major, perm. Advanced performance studio. Explores nontraditional performance and contemporary drama. Emphasis is on the performer as creator. Guest artists may be brought in to enrich the class experience. May be repeated.

315 Practicum in Acting (1–4)

Prereq: jr. audition. Supervised lab practice in rehearsal and public performance of roles. May be repeated.

316 Movement Theater I (3, max 9)

Prereq: jr. performance major or perm. (fall) Principles and techniques of theater movement. May be repeated

317A Voice for the Stage I (3)

Prereq: performance major. (fall) Principles and practice in vocal action for stage.

317B Voice for the Stage II (3)

Prereq: 217C. (fall) Principles and practice in vocal action for stage.

317C Voice for the Stage III (3)

Prereq: 317B. (spring) Principles and practice in vocal action for stage.

320 Directing II (4)

Prereq: 220 and permission. Principles and practices of directing for stage.

330 Elements of Technical Direction (4)

Prereq: perm. Introduces technical theater students to the mechanics of structures, as well as the management skills related to the work of the contemporary technical director.

331 Theory of Lighting (4)

Prereq: 231 and perm. (fall) Creative processes in design and execution of lighting for proscenium and non-proscenium forms.

332 Costume Design I (4)

Prereq: 130. (fall) Application of principles of design to stage costuming, with emphasis on figure drawing, characterization, and conceptualization.

333 Fundamentals of Scene Painting (1–4)

Basic materials, techniques, and theory of painting for the stage.

334 Scene Design (4)

Prereq: 233. (winter) Principles and projects in scene design.

335 Practicum in Production Design (1–4)

Prereq: perm. Supervised lab practice in design and execution of scenery, lighting, costumes, properties, and sound. May be repeated.

336 Props and Crafts Techniques (4)

Prereq: perm. (winter) An introduction to theatrical crafts, casting, and soft sculptural construction techniques and materials, as well as painting and decorative techniques.

337 Advanced Makeup (3)

Prereq: 237. Caricature, 3-dimensional and non-realistic makeup; rubber prothesis. 1 lec, 2 lab.

338 History of Costume (4)

Prereq: 332. (winter) Development of dress and influence of cultural factors from the Greeks to 1900.

345 Ohio Valley Summer Theater Practicum (1–6)

Prereq: perm. Supervised practice and experimentation in the company operation of a community theater performance project. May be repeated for credit.

350 Playwriting II (4)

Prereq: 250 and perm. Theory and practice of dramatic writing.

379 Theater Arts and Drama Workshop (2)

Prereq: 3rd year theater arts and drama major, perm. Continued exploration in areas of specific interest to the theater arts & drama major, with development of individualized courses of study and preparation of the fourth year of study. The topic of study is the relationship of theater to the other arts.

397T Theater Tutorial (1–15)

(fall) Junior-level tutorial class for students in the Honors Tutorial College.

398T Theater Tutorial (1–15)

(winter) See description for 397T.

399T Theater Tutorial (1–15)

(spring) See description for 397T.

402 Theater Management (4)

(fall) Procedures and practices in management of theater, including theater publicity, marketing, finance, ticket office, and house management.

405 Practicum in Management (1–4)

Prereq: perm. Supervised lab practice in problems of theater publicity, finance, and house management.

409 Independent Studies in Administration (1–6)

Prereq: perm and independent study form. Allows advanced theater major to develop study project in aspects and problems of theater administration beyond normal course offerings.

410 Scene Study II: Selected Topics (2–4, max 12)

Prereq: performance major or perm. (fall) Advanced performance studio. Topics vary. Genre- or topic-specific courses may include 20th-century innovators, Beckett and beyond, second series, radio drama, and theater performance. Courses emphasize application of research and studio experience with significant drama. May be repeated.

411 Acting IV (3)

Prereq: performance major or perm. (winter) Advanced performance studio. Topics vary. Exploration of acting through exercises and scenes with specific genres and topics, including Ibsen/Chekhov and Shakespeare. Examines specific requirements, similarities, and differences in historically significant theater. May be repeated.

412 Television Performance (3)

Prereq: perm. Performance experience in television acting with special emphasis on studio policies and operations, relationship of talent to the whole process of television production, analysis of camera performance techniques, and the production of scene work. This course is offered in conjunction with TCOM 419.

413 Acting Studies II (4)

Prereq: 211Y; nonmajor. Application of principles and techniques learned in earlier classes to a full text leading to public performance.

414 Acting V: International Performance—Selected Topics (3)

Prereq: performance major, perm. Advanced performance studio. Emphasizes exploration of specific performance skills in verbal and non-verbal international performance. In a given quarter, the focus can be as broad as drama of a region or country (Africa, Latin America, Asia, Middle East, Argentina, South Africa, Indonesia, Chile, India) or as specific as dramatic forms, authors, movements, and methods (Noh, ritual drama, masked dance and drama, Athol Fugard, Zakes Mda, Augusto Boal and the Theater of the Oppressed, Tadashi Suzuki, etc.). Guest artists may be brought in to enrich the class experience. May be repeated.

415 Practicum in Acting (1-4)

Prereq: senior, audition. May be repeated. Supervised lab practice in rehearsal and public performance of roles.

416 Movement Theater II (3, max 9)

Prereq: sr. performance major or perm. (winter) Advanced principles and techniques of movement theater, including improvisation and composition. May be repeated.

417 Advanced Voice Training: Dialects and Scansion (2)

Prereq: 317A, B, C. (spring) Introduction to and experience in scanning essentials of versification as it particularly applies to reading of dramatic lines. Introduction to study of dialects through use of study tapes and other source materials.

418 Senior Project (1)

Prereq: sr. performance major. Written component (short paper) of the performance project designated by the student and advisor as the senior project.

419 Independent Studies in Acting (1-6)

Prereq: perm and independent study form. Advanced theater major can develop study project in aspects and problems of acting beyond normal course offerings.

420 Directing II (4)

Prereq: 320 and perm. Practical experience in directing for stage.

425 Practicum-Directing (1-4)

Prereq: perm, max 12 hrs.

426 Stage Management (3)

Prereq: perm. (fall) Theoretical course in techniques and methods of professional stage management.

427 Practicum in Stage Management (2-4)

Prereq: 426 and perm. Supervised practical experience in stage managing of university theater or related production.

429 Independent Studies in Directing (1-6)

Prereq: perm and independent study form. Advanced theater major can develop study project in aspects and problems of directing beyond normal course offerings.

430 Advanced Stagecraft (4)

Prereq: 230, 231, 232. (fall) Advanced problems of scenery construction, handling, and rigging.

431 Lighting Design II (4)

Prereq: 131, 231, 331. Provides the student opportunities for preparation and critique of lighting design projects in a variety of theatrical contexts.

432 Costume Design II (4)

Prereq: 332, 338. (winter) Application of principles of design to stage costuming, with emphasis on conceptualization and period work.

434 Scene Design II (4)

Prereq: 334. Provides student with a series of design projects with an emphasis on portfolio preparation.

435 Practicum in Production Design (1-4)

Prereq: perm. Supervised lab practice in design and execution of scenery, lighting, costumes, properties, and sound.

436A Model Construction for the Scene Designer (4, max 8)

Prereq: perm. Introduction to the materials and techniques of model construction for the stage, including 1/4" and 1/2" scale models—experimental, working, and presentation models.

436B Drafting for the Stage (4, max 8)

Prereq: perm. Fundamental and advanced problems of drafting for the stage, including plans, sections, front elevations, rear elevations, and details.

436C Welding for the Theater (2)

An introduction to the materials and techniques of welding and metal fabrication for the scenic technician.

436D Costume Period Patterning Techniques (4)

Prereq: perm. (fall) Introduction to draping and advanced period construction and patterning techniques. Advanced sewing ability is required.

436F Properties Construction and Organization for the Stage (4)

Prereq: perm. To introduce the student to the organizational skills and craft techniques required to hold a job in a professional prop shop.

437A Sound Design I (4)

Prereq: perm. Principles and functions of sound design for the theater.

437B Sound Production (4)

Prereq: perm. Principles, characteristics, and techniques in the use of sound equipment for the theater.

438A Historical Bases of Design I (4)

Prereq: major or perm. Survey of research techniques in history, the arts, and period "style" from Antiquity to Early Renaissance in Western Civilizations for the purpose of theatrical production.

438B Historical Bases of Design II (4)

Prereq: major or perm. Continuation of 438A, covering the period from the High Renaissance to the present.

439 Independent Studies in Production Design (1-6)

Prereq: perm and independent study form. Advanced theater major develops study project in aspects and problems of production design beyond normal course offerings.

440 Professional Theater Internship (1-16)

Prereq: perm.

450 Advanced Playwriting (4)

Prereq: 350, theater arts and drama-playwriting major. Special problems in writing long plays.

451 Playwrights Workshop (3, max 9)

Prereq: perm. (winter, spring) Practical workshop experience for playwrights, directors, and actors with new scripts. May be repeated.

459 Independent Studies in Playwriting (1-6)

Prereq: perm and independent study form. Advanced theater major develops study project in aspects and problems of playwriting beyond normal course offerings.

465 Practicum in Directing (1-4)

Prereq: perm. Supervised lab practice in planning and executing dramatic production.

470 Tragedy (4)

Prereq: jr or sr. Study of tragic genre through both plays and critical and theoretical documents. No credit to those with credit for CA 470.

471 Comedy (4)

Prereq: jr or sr. Study of comic genre through both plays and critical and theoretical documents. No credit to those with credit for CA 471.

472 Forms of Drama (4)

Prereq: jr or sr. Study of genres of melodrama, farce, and tragicomedies through examination of plays and critical and theoretical documents. No credit to those with credit for CA 472.

473 Seminar in Theater History and Drama: Selected Topics (4, max 16)

Prereq: THAR or CA 270 or 271 or 272. An in-depth examination of a selected area of theater history and drama. May be repeated for credit.

475P Practicum in Dramaturgy (2-6, max 24)

Prereq: perm. Practical experience as a dramaturg on School of Theater productions, including historical, textual, and biographical research, as well as audience outreach activities.

477 American Theater and Drama (4)

Prereq: jr or sr. Study of significant movements and major playwrights of the American theater, with an emphasis on the 20th century.

479 Independent Studies in Theater History and Criticism (1-6)

Prereq: perm and independent study form. Advanced theater major develops study project in aspects and problems of theater history and criticism beyond normal course offerings.

497T Theater Tutorial (1-15)

(fall) Senior level tutorial class in theater subjects for students in the Honors Tutorial College.

498T Theater Tutorial (1-15)

(winter) See description for 497T.

499T Honors Tutorial (1-15)

(spring) See description for 497T.

Tier III (T3)

Tier III, the final element of the General Education Requirements, is a senior-level requirement for students who entered the university in September 1982 or after.

Two key ideas spurred the thinking that went into the creation of Tier III. One was structural, the other theoretical. The framers of the General Education Requirements believed that a solid and meaningful program of liberal studies should not be confined to basic courses taken largely during the freshman year, but should extend throughout an undergraduate's experience, enriching work in the upper division. The junior-level composition requirement, as well as Tier III, is a reflection of this conviction. Secondly, while there was wide agreement that work in the major was excellent for developing in students the powers of analysis—the ability to break things into smaller and smaller parts for detailed inspection and understanding—we realized that our curriculum offered few opportunities for students to develop a capacity for synthesis.

That capacity was defined as the ability to weave many complex strands into a fabric of definable issues, patterns, and topics. We wanted to nurture in our students the ability to understand that problems and issues are often only successfully approached from a variety of perspectives. To contribute to the preparation of men and women capable of handling complex intellectual and social issues, we needed to bring them together in courses specifically designed to confront broad topics from multiple perspectives.

401A Images of Blacks in the American Mind (4)

Prereq: sr, Tier II completion. Examines the nature, the sources, and the effects of ideas and attitudes about Americans of African descent that have pervaded American culture. Focuses upon images of blacks as bucks, coons, buffoons, improvident children, mammals, devoted Christians, etc., with a view of showing how widespread and deeply embedded these images have been in American culture and how they contributed to slavery and the subsequent exclusion of blacks from the mainstream of American life. Interdisciplinary in nature, the course uses the approaches and materials of a variety of fields of study—literature, art, film, history, the natural sciences, social sciences, popular culture.

401B American Experience Through Novels and Films (4)

Prereq: sr, 8 hrs humanities. Offers interdisciplinary perspective on aspects of American cultural experience and awareness of nation's fictional and cinematic contributions. Works of fiction (with occasional plays) and their film adaptations are studied for purpose of exploring issues, such as frontier, American dream, black/white relations, individualism versus collectivism, heroism, and feminism, pertinent to understanding of American experience.

401C Race and Ethnicity (4)

Prereq: sr, 8 hrs social sciences. Review of various theories of race. Critique of diverse definitions of ethnic groups. Due attention given to problem of ethnicity in international arena. Cross-national comparisons made of ethnic processes in developing countries, vis à vis ethnic processes in U.S., Western Europe, and Eastern Europe.

402B Introduction to Alternative Agriculture (4)

Prereq: sr and one PBIO course. Approaches agriculture through three disciplines: history, health, and environmental and plant biology, particularly as latter relates to growth of plants in soil. Historical dev. of current agricultural problems is examined, and practical, biologically based solutions are proposed. The relationship between soil infertility and the health and disease of animals and humans is also examined. Problems relating to Third World cultures are emphasized.

404A Reconstructing Roman Slavery (4)

Prereq: sr. Attempts to reconstruct slavery in the Roman world from the materials that have survived, including descriptions of slavery and slaves by the slave owners, literature that features characters who are slaves, and archaeological remains that illustrate the conditions of slavery.

406A Peace Corps Volunteers and Third-World Development (4)

Prereq: sr or perm; Tier II completion. Focuses on traditional societies throughout the world and on the interaction between people in those societies and "outsiders" from richer communities. Included are presentations by returned U.S. Peace Corps volunteers. Traditional societies, the impact on those societies of rapid social and economic change, challenges of intercultural communication, problems of project administration, and the ecological and environmental results of interaction.

407A Darwin Among the Poets: England in 1859 (4)

Prereq: sr and one course in English, political science, biology, or history. 1859 saw publication in England of an unusually large number of major works in various fields. This course examines climate of ideas that produced these works, the works themselves, and ideas and issues that resulted from them. Deals with Victorian (and modern) issues that touch on literature, science, politics, history, sociology, and religion.

407B The Autobiographical Quest (4)

Prereq: sr and one 200-level ENG course or perm (not open to students who have had 414A). Study of selected autobiographies with particular emphasis on individual's quest for meaning or value in course of life. Works examined and compared from various perspectives—literary, philosophical, religious, psychological, and social—as appropriate.

407C The Existential Vision: Philosophy, Literature, and Film (4)

Prereq: sr and one course in philosophy, literature, or film. Seeks to synthesize contemporary philosophy, literature, and film by studying themes introduced by existential philosophers but also treated by post-WW II writers and filmmakers.

407E American Indian Cultures Through Literature (4)

Prereq: sr, Tier II completion. Offers students opportunity to explore U.S. history from perspective of Native American scholars as well as traditional historians, anthropologists, and literary scholars.

407H Shakespeare and Psychology (4)

Prereq: sr, ENG 301, 303 or PSY 332. Examines Shakespeare's delineation of character psychodynamics and, at the same time, examines how psychological interpretation makes plain or illuminates Shakespeare's characters. Course is part of larger attempt to explore ways in which literary and psychological interpretation complement each other.

407L The Literacy Crisis: Origins and Effects (4)

Prereq: sr. Are the literacy skills acquired by students in schools in the United States adequate to the demands made by industry and society? Are the legislative and educational reforms designed to raise those levels likely to succeed or fail? This course will attempt to answer these questions. Only at OU-Eastern Campus, St. Clairsville.

407N Renaissance Texts and Sex (4)

Prereq: sr, 8 hrs upper div. ENG or HUM. Through the disciplines of law, literature, social history, and theater, examines female and male sexuality, particularly state versus individual control, as evidenced in Renaissance theater and drama and Renaissance courts and law. Studies and synthesizes 16th-, 17th-, and late 20th-century attitudes about sexuality. Includes study of family law issues, property law, and slander through the texts of London consistory (Bishop's) court cases, legal texts, theater treatises, two Shakespearean dramas, and film and stage versions of these dramas from the last three decades.

407P Sin and Sex in Western Legal History (4)

Prereq: sr, 8 hrs Tier II humanities. Using religious and philosophical texts from Plato to Thomas Aquinas, letters, legal documents, poetry, prose, rule books, art, and music, this course examines Western attitudes toward sex and sexuality and considers such questions as these: what do we mean by "masculine" and "feminine" and what do masculinity and femininity have to do with sin and sex? What are the connections between sin, sex, and politics?

408A American Conservation Movement (4)

Prereq: sr, 8 hrs natural sciences. Topical survey of schools of thought, themes, and specific issues in American conservation in past century. 19th-century transcendental thinkers are baseline for survey. Contemporary environmental issues and debates provide capstone for course.

409A Geologic Resources (4)

Prereq: sr, 4 hrs GEOL. Considers the interplay between extraction and use of mineral/energy resources and society. Plate tectonics and the rock cycle serve as examples of synthesis within the disciplines of the geological sciences. More interdisciplinary exercises in synthesis examine some of the geopolitical implications of resource distribution and how humans adapt their resource utilization as conditions change. Culminates with study of how the earth, oceans, and atmosphere interact as a system through which carbon moves and affects climate on multiple time scales. Effects of this system on society and vice versa are considered with regard to resource use.

410A Philosophies of History (5)

Prereq: sr and one course in HIST or PHIL. Study and discussion of different philosophies of history dating from ancient to modern period. Analysis of how thinkers have taken empirical data of history and shaped them into metaphysical form.

410B The Age of Michelangelo (4)

Prereq: sr. Michelangelo's life (1475–1564) spans two most significant movements in early modern European history: Renaissance and Reformation. All of his work, artistic and literary, reflects these movements. By studying his life and work, one is able to acquire richer and more lasting insight into and appreciation of Renaissance and Reformation. Deals with philosophy, theology, architecture, art history, literature, and history.

410C The Folklore of Espionage: The Spy in Novel, Film, and History (4)

Prereq: sr, 8 hrs Tier II social sciences or humanities. Presents the historical treatment of intelligence operations and espionage which have been depicted in literature and on film during the 20th century. Major themes include "The Spy as Hero"; "The Spy as Anti-Hero"; "Moles"; "Double Agents in Espionage"; "The Ambiguities of Cold War Espionage"; "Assassination"; "Espionage as Comedy"; and "Games Intelligence Services Play." Five novels and nine films that deal with these and other themes are examined.

410F Gender in the Renaissance (4)

Prereq: sr; Tier II completion; HIST 101, 122, or 123. Examines gender in the Renaissance, using history, anthropological perspectives, and gender analysis. Focuses on seven case studies, ranging from Joan of Arc to colonial Virginia and New England in the 17th century.

411A Linguistics and Semiotics: The Interpretation of Cultures as Texts (4)

Prereq: sr, LING 270 or perm. Descriptive and functional linguistic approaches are applied to analysis of cultural phenomena and interpretation of their meanings for present and past societies.

411C Language and Mind (4)

Prereq: sr or perm; one 300-level LING, PHIL, PSY, or ANTH. Evidence drawn from Noam Chomsky's theory of language will be brought to bear on the question of the place of the mind/brain in the natural world. Chomsky's claims touch on issues of central importance for linguistics, psychology, philosophy, and anthropology, and have had a decided impact on all of these fields over the past 30 years.

413B Science, Culture, and Human Values (4)
Prereq: sr and completion of Tier II in humanities and natural sciences. Examines nature of art and scientific inquiry by means of various 20th-century attempts at integration.

413D Irony in Literature and Society (4)
Prereq: sr or perm, one Tier II course in literature. Exploration of ironic elements in literature, media, and society, with special attention to differences between ironic structures created through language and those found in visual arts and in music.

414A The Autobiographical Quest (4)
Prereq: sr, 4 hrs PHIL; or perm; not open to those who have had 407B. Study of selected autobiographies with particular emphasis on individual's quest for meaning or value in course of life. Works examined and compared from various perspectives—literary, philosophical, religious, psychological, social—as appropriate.

414B Liability and Responsibility in the Law (5)

Prereq: sr, 8 hrs humanities or social sciences. Study of some of major problematic areas in ascription of legal liability and responsibility. Chief areas of concern are: (1) grounds on which courts determine who or what is causally responsible for what occurred; (2) extent to which finding of legal responsibility should take account of intentions, knowledge, recklessness, etc., of accused; and (3) whether only sane individuals should be held legally responsible.

414C Semiotics in Communication (5)
Prereq: sr. Semiotics is concerned with systems of signs, their interrelationships, and the images used to transmit such systems. This course introduces students to structures and processes of communication through the use of semiotics.

414F Stories and the Pursuit of Meaning (4)
Prereq: sr. To achieve a critical understanding of the human pursuit of meaning achieved through "cosmic" storytelling, this course examines a psychological foundation of storytelling, a philosophical taxonomy of stories, epistemological clues for assessing stories, the postmodernist disprivileging of all stories, and the Biblical, Buddhist, African, Marxian, and existentialist traditions as bearers of cosmic stories.

415A Entropy and Human Activity (4)
Prereq: sr. Examines the application of the concept of entropy to human society as a whole, through the critical reading and discussion of works by Jeremy Rifkin and Bernard Cohen. Energy is conserved, but most physical processes involve transformations of available energy into forms less readily available. Rifkin claims that civilized humanity should reorder its priorities to minimize increases of entropy, which characterize such transformations. Several topics in the physical sciences are presented in some detail to provide adequate technical background to evaluate Rifkin's theses.

415B Music, Instruments, and Physics (4)
Prereq: sr, hs algebra, and Tier II PHYS or MUS. Studies the physical principles of sound production in musical wind instruments. Examines historical instruments, their modern versions, and the modern wind instrument from both musical and physics perspectives. Simple instruments will be designed, built, and played in class, then examined for their suitability as popular musical instruments.

416D Human Values in a Technocratic Age (4)
Prereq: sr, Tier II completion. Examines relationship between scientific inquiry, technology, and values. What impact has ascendance of scientific ethos had on values? What is the relationship between scientific inquiry and technology? Should scientific inquiry and technological development be subject to ethical constraints? Traces historical impact of science and technology on Western culture.

417A Cognitive Processes in Writing (4)
Prereq: sr. Examines the mental processes involved in creating written communication. Considers the role of linguistic constraints, knowledge, and emotion in writing and how writing changes developmentally. The influence of writing on thought and knowledge change is considered.

419D Emotion, Power, and Gender (4)
Prereq: sr or perm; ANTH 101, SOC 101, or PSY 101. Examines the role played by emotion in our private as well as our public lives. A review of various theories regarding the nature of emotion will be presented, followed by discussions of the nature, acquisition, and maintenance of power as well as the uses of power and the relationships between power and emotion. The last section of this course is concerned with the relationship between gender and power, gender and emotion, and how these two broad areas dovetail, providing an explanation of the role of emotion in our everyday public and private lives.

419F Images of the Homeless (4)
Prereq: sr. Explores images of the homeless in literature, music, film, and the social sciences, with an emphasis on depictions of the homeless in the 20th century United States. Social science, cultural studies, and literary/rhetorical analysis are used to explore the sociohistorical development and impact of various images of the homeless. Students will also do creative projects, such as writing fiction, poetry, songs, etc., in which they develop their own depictions of homelessness.

420B Evolution and the Challenge of Creationism (4)

Prereq: sr, one Tier II natural science course. Examines two ways of knowing—science and religion—as exemplified in controversy on evolution and creationism. Claims and evidence for evolution and special creation, issues and strategies of conflict, arenas of confrontation, and implications of outcomes for both science and theology are discussed.

420C Biology of Human Social Behavior (4)
Prereq: sr; BIOL 101, BIOS 103, or BIOS 172. Evolutionary perspectives on human social behavior are examined in light of data from the social sciences. Behaviors such as bonding and communication are seen to arise from both biological bases and social experience.

420D Biology Through Biography (4)
Prereq: sr. Explores the act of discovery using major biological breakthroughs as the central theme. Integrates the disciplines of science, history, and philosophy by employing a biographical consideration of selected individuals. Uses the individual as a focal point to attain a sense of scientific discovery and considers the impact of the period's beliefs and thoughts on the development of the individual and, in turn, the individual's impact on both the disciplines and society as a whole.

420E Disease and Discovery: The Impact of Biology on History (4)

Prereq: sr; BIOS 103, 170, or BIOL 101; 4 hrs HIST. Explores ways humans have developed and changed their environment and themselves after first studying how environment and disease have influenced their physical and cultural development—how humans compete, migrate, and change in an ever-changing environment and how humans have brought numerous species, including their own, perilously close to extinction.

420F Dynamic Systems: Change, Chaos, and Fractals (4)

Prereq: sr, MATH 263B. Introduction to the study of dynamic systems focusing on the major classes of dynamic systems, modeling of the systems, and application of these concepts to real-world situations. Provides answers to such questions as: Why can we perfectly predict the activity of a pendulum yet cannot accurately predict the weather? Is the similarity of physiological homeostasis and household thermostats superficial or fundamental? What are fractional dimensions, and why do they describe the world better than the geometry you learned in high school?

432A Seminar in Negotiation and Conflict Resolution (4)

Prereq: sr. Examines nature of conflict from systems point of view. Presents theories and techniques of negotiation as method of resolving or managing conflict. Examples of successful and unsuccessful negotiations studied. Examples drawn from many areas of conflict, including purchasing and selling, marriage dissolution, labor contracts, hostage negotiations, plea bargaining, and international peace and arms limitation talks. Differences and similarities at various levels of negotiation are noted. Concludes with mock negotiation.

432B Working in the U.S.A. (4)

Prereq: sr or perm. Provides students with an understanding of the social, cultural, economic, psychological, and political nature of work in the U.S.; an appreciation of individual reactions to work, as well as the resulting productivity in modern organizations; and a basis for understanding the employment relationships in modern organizations. Focuses on the institution as well as the impact of institutional policies on individual work behaviors and organizational productivity.

432C Metaphors and Organization: Mgt. from Multiple Perspectives (4)

Prereq: sr; ANTH 101, PSY 101, SOC 101, or POLS 230. Studies metaphors applied to the understanding of organizations and how a selected metaphor both informs and limits. Gareth Morgan's book, *Imaginization*, guides discussions, examining various metaphors that are commonly employed and alternatives Morgan suggests. Discusses how these metaphors show up in elements of popular culture and applies them to real world cases in order to discover how understanding is shaped.

435A Communication and Racism (4)

Prereq: sr and 18 hrs social sciences. Focuses on how racial prejudices are communicated and shared within different racial groups; analyzes how people of specific racial groups perceive and talk about members of other racial groups. Conflict theory and research is studied to gain insight into how interracial conflicts are expressed and managed.

435B Black Communication Styles (4)

Prereq: sr, INCO 103. Explores African American history through the eyes of notable black orators. Selected speeches from these orators will be analyzed in an attempt to understand the historical elements that comprise the unique African American style of communication.

437A Images of War in Film, Television, and Literature in the 20th Century (4)

Prereq: sr, one course in HIST or POLS. Uses a case-study approach to evaluate how our perceptions of war have been shaped by fictional and nonfictional treatments. Course materials include novels, short fiction, television news and documentaries, fiction films, and archival sources that focus on WWI, WWII, Vietnam, regional wars of the 1980s and 1990s, and the Gulf War.

438A Women in the Information Age (4)

Prereq: sr, 8 hrs social sciences or WS 100 or COMT 214. Investigates the effects of the "information age" on women's lives. Although information technologies have revolutionized the way we live and work, men and women have not been affected in the same manner. This course explores the reasons women have interacted much differently than men with the two primary emerging technologies—computers and telephones.

446C Disabilities as Portrayed in the Media (4)

Prereq: sr, Tier II social sciences. Examines the evolution of the media's portrayal of persons with disabilities. Specifically, by applying relevant interdisciplinary theories and perspectives, selected films and television programs will be analyzed to determine the extent and manner in which selected media have impacted on society's perceptions and attitudes.

450B Technology and Culture (4)

Prereq: sr, Tier II completion. Intended to provide a synthesis experience for seniors on the topic of engineering and technology and their interactions with and effects on society. Students will have an opportunity to stand outside their particular major and to interact with other specialists to see what they can do to provide clarity of purpose and direction to the technological questions facing humankind.

450C Society and New Technology (4)

Prereq: sr, 8 hrs Tier II applied science and natural sciences. Examines past and present instances in which the course of adopting a technology has been affected by the influences of public and private institutions. Traces technology's path from the laboratory into functioning society and examines the obstacles new technology faces in becoming an integral part of mainstream society.

454A Connections: Inventions and Natural Resources (4)

Prereq: sr. Investigates the interrelationships between the manufacturing processes necessary to bring the concepts of invention to reality and the influence of limited natural resources on that endeavor.

460A Visual Culture Studies (4)

Prereq: sr. Various forms of visual culture including art, television, movies, advertising, fashion, domestic architecture, parks, carnivals, body piercing, etc. To discover new ways of understanding and appreciating visual culture, each form is analyzed through different theoretical approaches, including semiotics, feminism, post-structuralism, Marxism, multiculturalism, etc.

461A Social History Through the Arts (4)

Prereq: sr. An examination and comparison of social and political forces of two periods, the Elizabethan and the present, as expressed through the arts. Contemporary issues emphasized are changing gender roles, racism, the influence of African American arts (particularly music and dance) and ethics related to freedom of expression and support for the arts.

462B The Arts and People with Disabilities (4)

Prereq: sr, Tier II social sciences. Interdisciplinary examination of the role played by the arts in the lives of people with disabilities. Issues of value, function, accessibility as consumers and artists, performing with a disability, utilization of creative arts therapies, public attitudes, and advocacy are explored.

462C Music and Health (4)

Prereq: sr. An interdisciplinary examination of the impact of music from historical, behavioral, medical, psychological, and technological perspectives. Small group discussion and music experiences will be used to explore music in a healthy lifestyle, music in medicine, therapeutic applications of music, music technology, and advocacy for people who have health impairments.

463A Theatrical Space and Performance (4)

Prereq: sr, Tier II completion. Examines the historical and contemporary interaction of two art forms, theater and architecture, in the design and construction of theaters. Considers the requirements and demands of theater and architecture and analyzes their synthesis in creating actual theater structures.

464A Cultural Traditions and the Arts (4)

Prereq: sr. (fall) Principal styles of Western art as mirrored in selected masterpieces of architecture, sculpture, painting, music, and literature. Specific works of art examined in relationship to one another and against background of ideas that animated life of their times (Greek, Roman, Medieval).

464B Cultural Traditions and the Arts (4)

Prereq: sr. (winter) Principal styles of Western art as mirrored in selected masterpieces of architecture, sculpture, painting, music, and literature. Specific works of art examined in relationship to one another and against background of ideas that animated life of their times (Renaissance, Baroque).

464C Cultural Traditions and the Arts (4)

Prereq: sr. (spring) Principal styles of Western art as mirrored in selected masterpieces of architecture, sculpture, painting, music, and literature. Specific works of art examined in relationship to one another and against background of ideas that animated life of their times (19th and 20th centuries).

464E Madness in Culture (4)

Prereq: sr, 8 hrs Tier II humanities. Synthesizes the understanding of madness in its different expressions, such as cruelty, sexuality, illusions, hallucinations, or intoxications, as documented by artists, philosophers, writers, drug users, and people known to engage in strange and bizarre behavior.

470A Social Crises in Health Care Policy (4)

Prereq: sr. Virtually every medical advance is accompanied by complex set of poorly understood ethical, legal, political, and economic considerations. Course provides students with opportunity to explore in depth all dimensions of crisis that have arisen involving practice of medicine or provision of health care.

470B Sport Aesthetics (4)

Prereq: sr or perm. An analysis of the aesthetic in sport by viewing various works of art when sport serves as the subject of the artist and by observing sport when sport is the medium for creating aesthetic expression.

470C Chemicals: Health and Environment (4)

Prereq: sr or perm. Topics presented will include atomic and molecular structure, states of matter, acids and bases, polymers, corrosion, health-related issues (radon, formaldehyde, pesticides, asbestos), and global issues (ozone, greenhouse effect). Topics discussed with regard to their personal and environmental impacts.

470D Alternative Health (4)

Prereq: sr, HLTH 202. Considers basic questions about health and healing from a wide variety of perspectives. Course content will focus on health practices considered alternative health care practices in the United States today. Assumptions underlying these alternative or complementary systems will be contrasted with traditional health care views.

472A Self, Aging, and Society (4)

Prereq: sr, one course in SOC, PSY, or HCCF. Interrelates knowledge of aging, modes of thought, and values to one another and to practical problems in life, society and culture, and world of work. Focuses primarily on biological, psychological, sociological, health care, and public policy aspects of gerontology. Designed to analyze in an interdisciplinary way basic assumptions of aging, process of theory construction, interrelationship of theory and research, procedures of empirical investigation, implications of older age structure for American society, and problems of aged in American society.

472C Women and Leadership: Roles and Responsibilities (4)

Prereq: sr or perm; PSY 101 or SOC 101. Analysis of women in leadership roles in relation to historical, sociological, psychological, and economic perspectives. Strategies for developing leadership skills integrated throughout the course.

472D Thanatology (4)

Prereq: sr or perm; PSY 101 or SOC 101. Synthesizes components inherent in current philosophical and religious views and beliefs, psychological and clinical dimensions, sociological factors, and ethical and moral issues of death in context of defining and coping with death.

472K Clothing and Culture (4)

Prereq: sr; PSY 101, SOC 101, or ANTH 101; one course in CA or AH. Knowledge and understanding are built through the interdisciplinary study of apparel, appearance, and cross-cultural influences in variations and functions of dress. Student exploration to focus on apparel and appearance norms as a cultural universal. Emphasis on research methods, resources, and activities relating to cultural/subcultural patterns.

472L Food and Culture of the Mediterranean (4)

Prereq: sr, one course in ANTH, GEOG or SOC. Investigates the food and culture of the Mediterranean region from a cultural and geographic perspective.

474A Brainscape: The Integrative Brain (4)

Prereq: sr or perm. Interdisciplinary course that guides students to explore functions of the human brain. Integrates information on such topics as movement, control, and awareness; sensorimotor integration; language development and use; feelings, emotions, and drives; left brain, right brain; neural rhythmicity; levels of consciousness; and states of mind. Using this integrative information base, students explore and discuss mechanisms and evidences of such human attributes as thought and intellect, learning and memory, play, reason, and decision making.

480D Emergence of a Science (4)

Prereq: sr, one course in science or philosophy. For both science and nonscience majors interested in historical and philosophical influences that led to present concept of chemistry as science. Chronological survey, largely nontechnical, of developments in chemistry from Thales to Russell. Not acceptable for 400-level requirement in B.S. chemistry degree program.

480E War: The Human Response (4)

Prereq: sr, 12 hrs psychology or English. Human response to war considered in terms of myths of heroism and masculinity, nature of conflict, use and justification of aggression, perception of enemy, effects on both victims and victimizers, and irony of war. Human response examined both from subjective perspective of creators of literature of war and from objective perspective of psychologists who study individual and group behavior in times of conflict.

480G Schooling and the State (4)

Prereq: sr, Tier II course in PHIL. Critical inquiry into how education, through citizenship preparation, has been seen by liberal, conservative, and socialist philosophers as resolving social crises. Particular attention to eras of extreme social crisis such as Great Depression and recent decades. Use of popular literature and source documents to relate educational prescriptions to current topics in education.

480K Meaning in Music (4)

Prereq: sr, Survey of recent and historical attempts to explain relationships between musical stimuli and their musical or extramusical referents. Representative musical works examined in light of these theories.

480M Gandhi and King: Nonviolence as Philosophy and Strategy (5)

Prereq: sr, one social science course. Provides a view of nonviolence as an end and personal style, although emphasis is placed on nonviolence as a means of responding to oppression. Offers a structural opportunity for students to integrate the theories and practice of nonviolence or other alternative paradigms, as related to real life situations, into their own life experiences. An interdisciplinary analysis of nonviolence will be employed.

480P Ethical Issues in the Human Services (4)

Prereq: sr, Tier II course in humanities or social sciences. Examines variety of ethical issues facing human service workers (social workers, psychologists, counselors, etc.), including questions of truth-telling and confidentiality, paternalism and self-determination, distributive justice (allocation of resources), etc. Model for analyzing these issues is presented.

480R War: Historical and Dramatic Perspectives (4)

Prereq: sr, Tier II completion. Through vehicle of history and drama, examines way in which America has been affected by warfare in 20th century. Dramas studied from historical and theatrical perspectives for insights they offer about history of American society during wartime.

480T Science Policy in the U.S. (4)

Prereq: sr; POLS 101 or lab science course. Considers the intersection of science and politics. Investigates how government affects science, how scientists become involved in political decisions, and how scientific information is used in public policy making. Examines the values and methods of both science and politics, traces the historical development of science policy, and analyzes contemporary issues where science and politics meet.

480V Contemporary American Family (4)

Prereq: sr or perm. Study of American families based on psychological and literary analysis in professional literature and recent fiction and drama. Four questions designate the nature of the synthesis: (1) What is the relationship between the psychological study of the American family and its presentation in recent literature? (2) Do the portrayals of families in the literature reflect the family dynamics described by the psychologists? (3) What conclusions are best revealed by each approach? (4) What results from the synthesis of literary and psychological disciplines? Concerned with structures, functions, communication, roles, conflict, and intimacy in family settings, and also with the manner of their presentation in the literature.

Travel and Tourism (TAT)

The following courses for the A.A.S. in travel and tourism are available only on the Southern campus.

150 Travel Career Development Part I (3)

Introduction to comprehensive and critical information on travel products and destinations, important business issues, and the technical and personal skills needed to begin a career in the travel industry. Emphasis on the travel product and sales and marketing.

151 Travel Career Development Part II (3)

Continuation of 150 with emphasis on agency operations and travel industry careers.

160 Destination Training: North America (3)

Designed to acquaint students with in-depth information about the United States and Canada, including physical geography and political and cultural aspects of the region.

161 Destination Training: Ohio (3)

Designed to acquaint students with in-depth information about the state of Ohio, including physical geography and political and cultural aspects of the region. Also includes in-depth analysis of the group travel business.

162 Destination Training: Western Europe (3)

Designed to acquaint students with in-depth information about Western Europe, including physical geography and political and cultural aspects of the region.

163 Destination Training: Asia (3)

Designed to acquaint students with in-depth information about Asia, including physical geography and political and cultural aspects of the region.

164 Destination Training: Mexico, Caribbean (3)

Designed to acquaint students with in-depth information about Mexico and the Caribbean area, including physical geography and political and cultural aspects of the region.

250 Travel Rules and Regulations (4)

Introduction to the legal procedures, ethics, and relationships involving travel agencies and the airlines, tour operators, and travelers.

270 Travel Computer Program Training (3)

Introduction to computerized reservation system. Students will work with an actual airline computer program and will learn how to search for travel information, plan an itinerary, and write tickets.

280 Seminar: Travel Planning and Counseling (1)

Discussion and review of concepts relating to actual work experience in making travel arrangements and/or counseling travelers. Enrollment concurrent with 281.

281 Practicum: Travel Planning and Counseling (2)

Practical field experience in making travel arrangements and/or counseling travelers. Enrollment concurrent with 280.

282 Seminar: Tour Planning and Direction (1)

Discussion and review of concepts relating to actual work experience in planning and conducting a small group tour. Enrollment concurrent with 283.

283 Practicum: Tour Planning and Direction (2)

Practical field experience in planning and conducting a small group tour. Enrollment concurrent with 282.

290 Independent Study (1-4)

Prereq: written proposal and perm. Exploration of special topics in travel and tourism.

University College (UC)**105 College Information Seeking Skills (1)**

Prereq: fr. or soph. Finding, using, and evaluating information sources for undergraduate research. Includes narrowing a topic for an academic audience, concepts of indexing, and Boolean database searching. Hands-on lab approach with final bibliography tied to work in another class. Meets the first five weeks of the quarter.

106 Academic Computing Skills (1)

Prereq: fr. Designed for students with limited exposure to computers. Introduces functions and programs commonly used at Ohio University. Primary emphasis is on e-mail, word processing, and Internet research. May also include keyboarding, graphics, and database/spreadsheet management.

110 Learning Strategies (3)

Prereq: fr. Offers opportunity to assess present learning strategies and attitudes and adopt techniques that increase effectiveness in managing time, taking notes, remembering text material, preparing for exams, and gathering information. Emphasizes regular practice and use of strategies taught.

110A Time Management and Test Taking Skills (1)

Concentrates on managing time and preparing for and taking examinations. Duplicates components of UC 110.

110B Notetaking from Lectures and Textbooks (1)

Improves ability to select important information in lectures, discussions, and textbooks, organize it in note form and review it. Emphasizes regular practice and use of organized notetaking systems. Duplicates components of UC 110.

112 College Reading Skills (2)

Prereq: fr. Focuses on improving comprehension, interpretation, and evaluation of reading materials that are typical of college courses. Moves from short passages to longer selections. Includes speed reading techniques and vocabulary building. Emphasizes practice and application of skills.

112A Reading: Comprehending Textbooks (1)

Focuses on comprehension skills needed for reading college-level materials and a learning system to increase ability to read texts more efficiently. UC 112A and 112B combined duplicate UC 112.

112B Reading: Improving Speed and Vocabulary (1)

Increases reading speed and the ability to appropriately adjust rate to different types of reading materials and tasks. In addition, teaches effective techniques for developing a college-level vocabulary. UC 112A and 112B combined duplicate UC 112.

115 The University Experience (2)

Prereq: first-quarter student. Helps students adapt to demands of university as academic environment, assessing interests, values, and abilities; exploring academic majors and their requirements; establishing educational and career goals; and developing skills necessary for college success.

116 The University Experience—Regional Campus (3)

Prereq: first-quarter regional campus student. Helps the nonresidential regional campus student adapt to demands of university as academic environment, assessing interests, values, and abilities; exploring academic majors and their requirements; establishing educational and career goals; and developing skills necessary for college success.

125 Freshman Seminar (1-5, max 15)

Prereq: fr. Offered fall, winter, and spring in conjunction with FYE, the First Year Enrichment learning community. Speakers, author visits, films, small group discussion, and writing on a variety of environmental issues in fall and winter. In spring, students help design and deliver service-learning projects meant to enhance and restore southeastern Ohio's environment.

425 Senior Seminar (2)

Prereq: sr, specialized studies major. Seminar for specialized studies seniors, examining opportunities, challenges, and issues of the 21st century workforce. Includes engaging in self-assessment, reflection, and analysis of degree program, and developing a portfolio that documents learning and accomplishments.

University Professor (UP)

Courses are offered each year by University Professors selected the preceding academic year. The courses cover topics chosen by the professors themselves, and may be offered only twice through the University Professor program. Often University Professor courses have joint first-year and upperclass sections. As the courses are special offerings, no permanent listing of descriptions and registration information is possible. For descriptions and registration information, visit University College at 140 Chubb Hall.

Generally, a University Professor course offered within the professor's area of training and expertise will count toward area requirements of different colleges, where applicable. Otherwise the credit fulfills elective credit hours. Be sure to check with your college office regarding application of University Professor course credit to college requirements.

150 University Professor

Title, prereq, and credit hrs published in *Schedule of Classes*. Fall qtr fr-level UP course.

151 University Professor

Title, prereq, and credit hrs published in *Schedule of Classes*. Winter qtr fr-level UP course.

152 University Professor

Title, prereq, and credit hrs published in *Schedule of Classes*. Spring qtr fr-level UP course.

450 University Professor

Title, prereq, and credit hrs published in *Schedule of Classes*. Fall qtr upperclass-level UP course.

451 University Professor

Title, prereq, and credit hrs published in *Schedule of Classes*. Winter qtr upperclass-level UP course.

452 University Professor

Title, prereq, and credit hrs published in *Schedule of Classes*. Spring qtr upperclass-level UP course.

Visual Communication (VICO)

The curriculum in visual communication includes the courses listed below plus a variety of courses offered through the E. W. Scripps School of Journalism.

120 Introduction to Visual Communication (4)

A survey of visual communication theory and technology of visual communication from ancient cave drawings to digital computer images.

220 Topic Seminar (2-4)

Prereq: 120. Examines the foundations of visual communication through the ages. Looks at the works of various photographic communicators and discusses how visual communication can inform, stimulate emotions, and influence viewers.

221 Introduction to Visual Communication Skills (4)

Prereq: 120. An introduction to visual communication skills through the color photographic medium. Student work will be reviewed and critiqued as to composition, technique, and the ability to communicate the information of the original subject to the viewer. Students will be required to have a 35mm camera with manual exposure and focus capabilities.

222 Introduction to Visual Communication Tools (4)

Prereq: 120 or perm. (cooperative buying fee) A foundation class in the basic photographic tools and techniques used for visual communication. The course will examine methods for effective communication using photography as a language. Students will be required to have a 35mm camera with manual exposure and focus capabilities.

311 Informational Graphics (5)

Prereq: JOUR 233 or perm. (cooperative buying fee) The visual presentation of quantitative and spatial information. Examines the planning, design, and computer preparation of charts, graphs, diagrams, and maps for use in newspapers and magazines.

314 Desktop Publishing (5)

Prereq: jr or perm. (cooperative buying fee) An introduction to the production, design, and techniques of desktop publishing. Explores the many software packages for desktop publishing for microcomputers with emphasis on the presentation of visual material on the page.

320 Topic Seminar (2-4)

Prereq: perm. A flexible format for examining current and future topics in visual communication. Because of constantly changing trends in the profession, topics will vary as an area of need not covered in an existing class is identified. Topics will include the areas of rapid change such as technology, techniques, ethics, and aesthetics.

321 Introduction to Photographic Illustration (4)

Prereq: 222. (cooperative buying fee) Introduction of the basic tools of photographic illustration including techniques of the view camera, approaches to fashion, still life, and lighting.

323 Publication Layout and Design (4)

Prereq: JOUR 221 or 235 or VICO 314. (cooperative buying fee) Examines historic and contemporary theories of layout and make-up design. Using computer systems that simulate pagination programs, students will investigate methods of combining type, graphics, and photographs on the printed page.

327 Photo Illustration: Fashion (4)

Prereq: 321. (cooperative buying fee) The exploration and interpretation of the interaction of gesture, movement, and light in relation to capturing the essence of people and garments.

328 Photo Illustration: Still Life (4)

Prereq: 321. (cooperative buying fee) An exploration of the principles of light and its effect on surfaces and shapes in studio lighting.

390 Introduction to Photojournalism (4)

Prereq: 222. (cooperative buying fee) Introduction to the photographic techniques, tools, and content issues in visual communication for publications.

391 Intermediate Photojournalism I (4)

Prereq: 390. (cooperative buying fee) This class will examine single image photography as it is used in journalism and publications. The emphasis will be on using the photographic medium to communicate ideas, information, and emotions.

392 Intermediate Photojournalism II (4)

Prereq: 391. (cooperative buying fee) An examination of multiple sequential imaging as used in the photographic narrative form—picture story.

393 Intermediate Photojournalism III (4)

Prereq: 392. (cooperative buying fee) The use of color materials in reportage. The class will examine the various problems and explore solutions to using color materials in uncontrolled natural environments. Color balance, lighting, low light situations, reproduction, films, and processing will also be topics.

412 Advanced Informational Graphics (5)

Prereq: 311. (cooperative buying fee) Visual presentation of spatial information with emphasis on design and production techniques as they pertain to newspapers and magazines.

421 Documentary/Essay (5)

Prereq: 392. (cooperative buying fee) The use of still photography as a tool for social, anthropological, and journalistic investigation of contemporary issues. Using methods defined by traditional field researchers, the class will expand the use of the photograph for collection and interpretation of selected subjects.

426 Advanced Publication Layout and Design (4)

Prereq: 323. (cooperative buying fee) Advanced study in the use of computers as a tool for layout, design, and pagination for print media.

427 Advanced Photographic Illustration: Business Practices (5)

Prereq: 327 or 328. (cooperative buying fee) An investigation of the principles of studio management. Areas of study will include copyright, computer usage, self promotion, and financial management.

428 Advanced Photographic Illustration: Studio Practices (5)

Prereq: 328. (cooperative buying fee) Advanced studio methods in the design and execution of illustration images. Particular emphasis will be placed on the professional performance in producing images using advanced equipment and techniques.

429 Advanced Photographic Illustration: Applications (5)

Prereq: 327 and 328, or 486. (cooperative buying fee) A synthesis of business and photographic skills. Students will be given simulations based on a complete project concept that reflects the realities of working professionally.

470 Graphics Systems Management (4)

Prereq: 311 or 314. (cooperative buying fee) Planning, configuration and maintenance of computer and communication systems used in the graphic arts industry. Course will survey electronic production methods and examine technical and practical issues of graphics computers, peripherals, applications, and system hardware.

471 Digital Imaging (4)

Prereq: jr or perm. (cooperative buying fee) Advanced class introducing the computer as a tool for digital alteration of images to create composite and altered photographic images. Uses Macintosh computers and production quality scanners to alter and manipulate photographic images for creative and illustrative presentation.

473 Interactive Media (4)

Prereq: 470. (cooperative buying fee) Introduction to planning, media integration, and production techniques and tools of interactive multimedia. Through practical exercises this course will expose students to major component media, including computer text, graphics, photography, animation, speech, sound, and video. Technical and human interface issues are also covered.

480 Digital Portfolio (0)

Prereq: VICO major, jr or sr. (cooperative buying fee) Portfolio production for VisCom majors. This class provides supervised access to the VisCom computer labs for the purpose of preparing portfolios for internships and job applications. Special fee required.

481 Professional Development (4)

Prereq: sr and 15 hrs VICO. (cooperative buying fee) Preparation for entry into the profession. Course will detail finishing and preparation of portfolio material, presentation skills, and knowledge of entry level professional employment possibilities.

486 Advanced Photographic Reportage I (4)

Prereq: 393. (cooperative buying fee) Advanced visual production work in newspaper photographic reportage, with particular emphasis on the picture story or photographic essay. This documentary photojournalism class will use a wide range of color and/or black and white material. Finished projects will incorporate the use of computers and scanned images for final portfolio production.

487 Advanced Photographic Reportage II (4)

Prereq: 486. (cooperative buying fee) Advanced visual production work in magazine design, with particular emphasis on the picture story or photographic essay. This class will use a wide range of skills to produce a prototype magazine publication within a 10-week quarter. The class demands audience research, visual content focus, field research, photography, writing, design, and production. The class involves the use of computers and film scanners for production.

488 Advanced Photographic Reportage III (4)

Prereq: 487. (cooperative buying fee) Advanced visual photographic production using a time-based media (slide shows or CD-ROM), with particular emphasis on the picture story or photographic essay. This documentary photojournalism class will use a wide range of photographic materials. Finished projects will incorporate the use of computers and scanned images into time-based visual presentations.

491 Individual Study (1-5)

Prereq: 16 hrs VICO, perm and written proposal. Max 12 hrs. Individual course of study agreed upon with the permission and guidance of a faculty member.

Zoology

See Biological Sciences.

Virology

See Biological Sciences: Microbiology.

Women's Studies (WS)**100 Introduction to Women's Studies (4) (2H)**

Women's studies fundamentals course, in which students examine women's diverse experiences, perspectives, and contributions, and look at cultural beliefs and stereotyped images of women and their roles in different times and places. This interdisciplinary course is a representation of women and their efforts to define new identities through work and creative activity and through feminism, both historically and at present. Covers socialization, ideology, the history of the women's liberation movement, and different perspectives in feminism.

200 Issues in Feminism (4)

Prereq: 100; ENG 151, 152, or 153. Builds on fundamentals learned in 100 and addresses contemporary issues pertaining to women and gender. At least three of the following will be covered: work, health and reproduction, politics, education, violence, women in non-Western societies, and women in the arts. The instructor may also cover up to two additional issues such as women in athletics, gender and aging, or ecofeminism.

250 History of Feminist Thought (4)

Prereq: 100; ENG 151, 152, or 153. This course will provide students with a general introduction to various modes of inquiry that distinguish feminist thought, beginning in the 15th century and moving to the end of the 20th century. The course is designed to encourage an understanding of theoretical analysis—specifically, to develop students' awareness of a variety of feminist approaches to questions of knowledge, gender subjectivity, identity, agency, politics, and theory itself.

360 The Women and Work Internship (4)

Prereq: 100. Combines study of basic legal, social, health, and financial issues with an eight-week practicum, resume workshop, and assessments of interviewing skills. The goals are an academic understanding of workplace issues for women in traditional and nontraditional work situations and a preparation for entering the job market.

400 The New Scholarship on Women: The Question of Difference (4)

Prereq: 100, certificate student, sr. The question of sexual differences has both plagued and motivated contemporary feminist analyses. This course explores what new scholarship on women is going on in diverse disciplines that contributes to the question of differences among women and between women and men.

490 Independent Reading (1-4)

Prereq: perm. Directed individual reading or research.

493 Special Topics (4)

Prereq: 100; jr. Focuses on specific topics of interest in the field of women's studies.

Departmental Faculty

The following listings were submitted by the dean's office in each college in May 1999 and verified in the provost's office. The regional campus faculties are listed after the Athens campus faculty.

Accountancy

O'Brien Prof: Florence C. Sharp, Ph.D., *U. of Illinois*.

Prof: Glenn E. Corlett (dean), J.D., *Ohio State U.*; Leon B. Hoshower, Ph.D., *Michigan State U.*; E. James Meddaugh, Ph.D., *Pennsylvania State U.*; Ray G. Stephens (director), D.B.A., *Harvard U.*

Assoc. Prof: James S. Cox, (emeritus, part-time), Ph.D., *U. of Pittsburgh*; David P. Kirch, Ph.D., *Pennsylvania State U.*; David L. Senteney, Ph.D., *U. of Illinois*; Donald V. Stuchell (emeritus, part-time), M.A.S., *U. of Illinois*.

Asst. Prof: Yining Chen, Ph.D., *U. of South Carolina*; Carol A. Hilton, Ph.D., *U. of Arkansas*.

Instr: Olin Adams III, M.B.A., *Mount St. Mary's College*.

Asst. Prof: Barbara Bays, Ph.D., *Indiana U.*; Mary Campbell, M.F.A., *U. of California, Davis*; Christine Heindl, M.F.A., *Cornell U.*; Anita E. Jung, M.F.A., *U. of Wisconsin*; Yoon Soo Lee, M.F.A., *Western Michigan U.*; Daniel Loewenstein, M.F.A., *U. of California, San Diego*; Ann Matlock, M.F.A., *U. of Texas*; Thomas Patin, M.F.A., *Colorado State U.*; Kiyui Shen, M.A., *Ohio State U.*

Aviation

Prof: C. Elaine McCoy (chair), Ph.D., *Ohio U.*

Asst. Prof: Ronald J. Faliszek, B.B.A., *Ohio U.*; B.J. Galloway, M.B.A., *Embry-Riddle Aeronautical U.*

Instr: Steven Archille, B.S., *Ohio U.*; Joseph J. Gascoyne, B.S., *Ohio U.*; Joanne M. Stepic, B.S., *Ohio U.*; Chad Ward, B.S., *Ohio U.*

Aerospace Studies

Prof: Jeffrey S. Fischer (chair), M.S.A., *Central Michigan U.*

Asst. Prof: Stephen Davis, M.S., *Bloomsburg State College*; Steven Falls, M.S., *U. of Louisville*; Daniel Groner, M.S., *U. of Florida*; Margaret Herring, M.A., *U. of Oklahoma*.

African American Studies

Prof: Francine C. Childs, Ed.D., *East Texas State U.*

Assoc. Prof: Robert Rhodes, M.A., *U. of Cincinnati*, and M.S., *Atlanta U.*; Vattel T. Rose (chair), Ph.D., *U. of Minnesota*.

Instr: O. Funmilayo Makarah, M.A., *U. of Rochester*.

Art

Prof: Power Boothe (director), B.A., *Colorado College*; Joseph Bova, M.A., *U. of New Mexico*; Abner Jonas (emeritus, part-time), M.F.A., *U. of Iowa*; David R. Klahn, M.F.A., *U. of Wisconsin*; Ronald Kroutel (emeritus, part-time), M.F.A., *U. of Michigan*; Mary Manusos, M.F.A., *U. of Wisconsin*; Charles McWeeny, M.F.A., *Oklahoma U.*; Karen Nulf (emerita, part-time), M.A., *Michigan State U.*; Judith Perani, Ph.D., *Indiana U.*; Gary Pettigrew (emeritus, part-time), M.F.A., *Ohio U.*; Daniel Williams (part-time), M.A., *U. of Oregon*.

Assoc. Prof: Don Adleta, M.F.A., *School of Design, Switzerland*; Marilyn Bradshaw, Ph.D., *Indiana U.*; Carolyn Cardenas, M.F.A., *Drake U.*; Aethelred Eldridge, M.S.D., *U. of Michigan*; Michael Harper (part-time), Ph.D., *U. of North Carolina*; T. Hipp, E.D.D., *U. of North Carolina, Greensboro*; Joseph Lamb, Ph.D., *U. of California, Santa Barbara*; Robert Lazuka, M.F.A., *Arizona State U.*; Duane McDiarmid, M.F.A., *Florida State U.*; Robert Peppers, M.F.A., *Ohio U.*; Marilyn Poeppelmeyer, M.F.A., *SUNY, Buffalo*; Brad Schwieger, M.F.A., *Utah State U.*; Gary Schwindler (part-time), Ph.D., *U. of California, Los Angeles*.

Biological Sciences

Prof: William Hummon (part-time), Ph.D., *U. of Massachusetts*; Anne Loucks, Ph.D., *U. of California, Santa Barbara*; Ellengene Peterson, Ph.D., *U. of California, Riverside*; Jerome Rovner (part-time), Ph.D., *U. of Maryland*; Michael Rowe, Ph.D., *U. of California, Riverside*; Gerald Svendsen, Ph.D., *U. of Kansas*; John Zook, Ph.D., *Duke U.*

Assoc. Prof: Anthony Brown, Ph.D., *King's College, U. of London*; Mary Chamberlin, Ph.D., *U. of British Columbia*; Robert Colvin, Ph.D., *Rutgers U.*; Ralph DiCaprio, Ph.D., *U. of Alberta*; William Holmes, Ph.D., *U. of California, Los Angeles*; Scott Hooper, Ph.D., *Brandeis U.*; Patricia Humphrey (part-time), Ph.D., *Purdue U.*; Donald Miles, Ph.D., *U. of Pennsylvania*; Scott Moody, Ph.D., *U. of Michigan*; Stephen N. Reilly, Ph.D., *Southern Illinois U.*; Matthew White, Ph.D., *Virginia Tech*.

Asst. Prof: Elizabeth Crockett, Ph.D., *U. of Maine*; Mark F. Dybdahl, Ph.D., *U. of California, Davis*; Donald L. Holzschu, Ph.D., *U. of California, Davis*; Kelly Johnson, Ph.D., *Michigan State U.*; David Kurjiaka, Ph.D., *Pennsylvania State U.*; Molly R. Morris, Ph.D., *Indiana U.*; Willem Roosenburg, Ph.D., *U. of Pennsylvania*.

Instr: Helaine Burstein, Ph.D., *North Carolina State U.*; Robert Carr, Ph.D., *U. of Michigan*; Joan Cunningham, Ph.D., *Ohio U.*; Steven Edinger, M.A., *Northern Michigan U.*; Ronald Heinrich, Ph.D., *Johns Hopkins U.*; Karen A. Mammone, M.S., *Frostburg State U.*; Christopher Schwirian, M.S., *Ohio U.*; M. Suzanne Simmon, B.S., *College of Mount St. Joseph*.

Lect: Laura DiCaprio, Ph.D., *U. of Alberta*; Molly McCarthy, M.S., *Rutgers U.*; Mary Nossek, M.S., *Ohio U.*

Chemistry and Biochemistry

Prof: Kenneth L. Brown (chair), Ph.D., *U. of Pennsylvania*; Howard D. Dewald, Ph.D., *New Mexico State U.*; David Hendricker, Ph.D., *Iowa State U.*; Gary Small, Ph.D., *U. of North Carolina*; Paul Sullivan (emeritus, part-time), Ph.D., *U. of Waterloo*.

Assoc. Prof: Jared Butcher Jr., Ph.D., *U. of Tennessee*; Karen E. Eichstadt, Ph.D., *U. of Kansas*; Peter deB. Harrington, Ph.D., *U. of North Carolina*; Frederick Lemke, Ph.D., *Purdue U.*; Mark C. McMills, Ph.D., *Michigan State U.*; Gary Pfeiffer, Ph.D., *Carnegie Mellon U.*; Hugh H. Richardson, Ph.D., *Oklahoma State U.*; Martin T. Tuck, Ph.D., *U. of Tennessee*; Gene Westenbarger (emeritus, part-time), Ph.D., *U. of California, Berkeley*.

Asst. Prof: Anthony Andrews, Ph.D., *U. of Hull*; Elisar Barbar, Ph.D., *Portland State U.*; Michael Hare, Ph.D., *U. of Minnesota*; Marcia Kieliszewski, Ph.D., *Michigan State U.*; Lauren E. McMills, Ph.D., *Michigan State U.*; Paul Van Patten, Ph.D., *U. of South Carolina*; David Young, Ph.D., *U. of Edinburgh*.

Classics

Charles J. Ping Professor of Humanities: Thomas H. Carpenter, Ph.D., *Oxford U.*

Assoc. Prof: James A. Andrews (chair), Ph.D., *U. of California, Berkeley*; Robert Stephen Hays, Ph.D., *U. of Texas, Austin*; William Owens, Ph.D., *Yale U.*

Asst. Prof: Joel Allen, Ph.D., *Yale U.*; Ruth Palmer, Ph.D., *U. of Cincinnati*.

Communication Systems Management

Prof: Phyllis W. Bernt, Ph.D., *U. of Nebraska*.

Assoc. Prof: Hans Kruse (director), Ph.D., *Vanderbilt U.*

Asst. Prof: Philip Campbell, M.S., *SUNY, Stony Brook*; Anthony G. Mele, B.S., *Ohio U.*; Trevor Roycroft, Ph.D., *U. of California, Davis*.

Comparative Arts

Prof: Jessica Haigney, Ph.D., *Ohio U.*; Norma Humphreys (interim director), Ph.D., *Ohio U.*; Dora J. Wilson, Ph.D., *U. of Southern California*.

Assoc. Prof: Timothy Wutrich, Ph.D., *Tufts U.*

Asst. Prof: Wojtek Chojna, Ph.D., *Temple U.*

Dance

Dist. Prof: Gladys Bailin (emerita, part-time), B.A., *Hunter College*.

Prof: Madeleine Scott (director), M.A., *U. of California, Los Angeles*.

Assoc. Prof: Patricia Brooks (emerita, part-time), B.S., *Wayne State U.*; Michelle Geller, M.F.A., *New York U. School of the Arts*; Andre Gribou, M.M., *Juilliard School of Music*; Marina Walchi, M.F.A., *Ohio U.*; Susan Van Pelt, M.A., *Ohio State U.*

Asst. Prof: Travis Gatling, M.F.A., *Ohio State U.*; Lisa F. Moulton, M.F.A., *U. of Utah*.

Lect: Frederick Krap (part-time).

Economics

Dist. Prof: Lowell Gallaway, Ph.D., *Ohio State U.*; Richard Vedder, Ph.D., *U. of Illinois*.

Prof: Douglas Adie, Ph.D., *U. of Chicago*; Roy Boyd, Ph.D., *Duke U.*; Edwin Charlé (emeritus, part-time), Ph.D., *Indiana U.*; Khosrow Doroodian, Ph.D., *U. of Oregon*; Ismail Ghazalah, Ph.D., *U. of California, Berkeley*; David Klingaman, Ph.D., *U. of Virginia*; Rajindar K. Koshal, Ph.D., *U. of Rochester*.

Assoc. Prof: Tony Caporale, Ph.D., *George Mason U.*; Chulho Jung, Ph.D., *U. of Michigan*; Jan Palmer (chair), Ph.D., *Michigan State U.*; Rosemary Rossiter, Ph.D., *U. of Wisconsin, Milwaukee*; Harold Winter, Ph.D., *U. of Rochester*.

Asst. Prof: Barbara Caporale, Ph.D., *George Mason U.*

Education—Counseling and Higher Education

Prof: Thomas Davis, Ph.D., *Ohio State U.*; Fred Dressel (emeritus, part-time), Ed.D., *Indiana U.*; Luther Haseley (emeritus, part-time), Ed.D., *U. of Toledo*; Richard Hazler, Ph.D., *U. of Idaho*; Richard Miller, Ph.D., *Columbia U.*; Sally Navin (emerita, part-time), Ph.D., *Ohio State U.*; Thomas Sweeney (emeritus, part-time), Ph.D., *Ohio State U.*; Robert Young, Ph.D., *U. of Illinois*.

Assoc. Prof: Patricia Beamish, Ed.D., *West Virginia U.*; Carla Bradley, Ph.D., *Kent State U.*; Glenn Doston, Ph.D., *Northwestern U.*; Gary Moden, Ph.D., *U. of Missouri*.

Asst. Prof: Victoria Guthrie, Ph.D., *Bowling Green State U.*; Tracey Leinbaugh, Ph.D., *U. of Idaho*; Jerry Olscheski, Ph.D., *Ohio State U.*

Education—Educational Studies

Prof: Robert Barcikowski, Ph.D., *SUNY, Buffalo*; James Heap (dean), Ph.D., *U. of British Columbia*; Aimee Howley, Ed.D., *West Virginia U.*; Donald Knox (emeritus, part-time), Ed.D., *Case Western Reserve U.*; Sandy Turner, Ph.D., *U. of South Florida*; George Wood, Ph.D., *U. of Illinois*.

Assoc. Prof: W. Stephen Howard, Ph.D., *Michigan State U.*; George Johanson, Ed.D., *U. of Massachusetts*; John McCutcheon, Ed.D., *Indiana U.*

Asst. Prof: Teresa Franklin, Ph.D., *Ohio U.*; Catherine Glascock, Ph.D., *Louisiana State U.*; Suzy Green, Ph.D., *Ohio U.*; Chandra Hawley Orrill, Ph.D., *Indiana U.*; Jaylynn Hutchinson, Ph.D., *U. of Washington*; William Larson (part-time), Ph.D., *Bowling Green State U.*; Najee Muhammad, Ph.D., *U. of Cincinnati*; Tracey Reed, Ph.D., *U. of Virginia*; Charles Taylor (part-time), Ph.D., *Bowling Green State U.*

Instr: Michael Beutner, M.A., *Ohio U.*

Education—Teacher Education

Prof: Larry Jageman, Ed.D., *U. of Northern Colorado*; Ralph Martin, Ph.D., *U. of Toledo*; Joan McMath, Ph.D., *U. of Akron*; Ragy Mitos, Ph.D., *Ohio State U.*; Stephen Safran, Ph.D., *U. of Virginia*; James Schultz (Morton Prof.), Ph.D., *Ohio State U.*; Charles Smith Jr., Ed.D., *Wayne State U.*; James Thompson (emeritus, part-time), Ph.D., *Ohio State U.*

Assoc. Prof: Bonnie Beach, Ph.D., *Ohio U.*; Arthur Clubok (emeritus, part-time), Ph.D., *U. of Michigan*; Dorothy Leal, Ph.D., *U. of Kentucky*; Sondra Rebottini, Ed.D., *West Virginia U.*; Barbara Reeves, Ed.D., *U. of Kentucky*; Marta Roth, Ed.D., *West Virginia U.*; Joan Safran, Ph.D., *U. of Virginia*; William Smith, Ed.D., *Indiana U.*; Scott Sparks, Ph.D., *U. of Florida*; James Yanok, Ph.D., *Kent State U.*

Asst. Prof: Heidi Andrade, Ed.D., *Harvard U.*; Dianne Gut, Ph.D., *U. of North Carolina, Chapel Hill*; Rosalie Romano, Ph.D., *U. of Washington*.

Instr: Ruth Ann Murphy, M.A., *Ohio U.*; William Twarogowski (part-time), M.Ed., *Xavier U.*

Education—Professional Laboratory Experiences

Instr: Rena Allen, M.A., *Marshall U.*; Bonnie Bailey, M.Ed., *Indiana U. of Pennsylvania*; Diane Burkhart, M.Ed., *Kent State U.*; Connie Scott, M.Ed., *Ohio U.*; Karl Weimer, Ed.D., *Case Western Reserve U.*

Engineering, Chemical

Prof: Nicholas Dinos (emeritus, part-time), Ph.D., *Lehigh U.*; W. Paul Jepson (Russ Prof.), Ph.D., *Heriot-Watt U., Scotland*; Michael Prudich (chair), Ph.D., *West Virginia U.*

Assoc. Prof: Wen-Jia Russell Chen, Ph.D., *Syracuse U.*; Tingyue Gu, Ph.D., *Purdue U.*; Daniel Gulino, Ph.D., *U. of Illinois*; Darin Ridgway, Ph.D., *Florida State U.*; Kendree Sampson, Ph.D., *Purdue U.*

Asst. Prof: Madan Gopal, Ph.D., *Ohio U.*; Valerie Young, Ph.D., *Virginia Polytechnic Institute and State U.*

Engineering, Civil

Prof: Tiao Chang, Ph.D., *Purdue U.*; Glenn Hazen, Ph.D., *Pennsylvania State U.*; Gayle Mitchell (Russ Prof. and chair), Ph.D., *Mississippi State U.*; Shad Sargand (Russ Prof.), Ph.D., *Virginia Polytechnic Institute and State U.*; W. Kent Wray (dean), Ph.D., *Texas A & M U.*

Assoc. Prof: Lloyd A. Herman, Ph.D., *Vanderbilt U.*; Eric P. Steinberg, Ph.D., *Michigan Tech. U.*

Asst. Prof: Kenneth B. Edwards, Ph.D., *Iowa State U.*; Sang-Soo Kim, Ph.D., *Iowa State U.*; Teruhisa Masada, Ph.D., *Ohio U.*; Ben J. Stuart, Ph.D., *Rutgers U.*

Engineering, Electrical and Computer Science

Stocker Visiting Prof: Charles Alexander, Ph.D., *Ohio U.*

Prof: Hollis Chen (part-time), Ph.D., *Syracuse U.*; Joseph Essman (emeritus, part-time), Ph.D., *Purdue U.*; Herman Hill, Ph.D., *West Virginia U.*; R. Dennis Irwin (chair), Ph.D., *Mississippi State U.*; Robert Judd (Cooper Industries Prof.), Ph.D., *Oakland U.*; Henryk Lozykowski, Ph.D., *N. Copernicus U.*; Brian Manhire, Ph.D., *Ohio State U.*; Jerrel Mitchell (Russ Prof.), Ph.D., *Mississippi State U.*; M.E. Mokari, Ph.D., *U. of Illinois*; Roger Raddcliff, Ph.D., *West Virginia U.*; Janusz Starzyk, Ph.D., *Technical U., Warsaw*; Frank van Graas, Ph.D., *Ohio U.*; Lonnie Welch, Ph.D., *Ohio State U.*

Assoc. Prof: Michael S. Braasch, Ph.D., *Ohio U.*; Mehmet Celenk, Ph.D., *Stevens Institute of Technology*; David Chelberg, Ph.D., *Stanford U.*; Robert Curtis, Ph.D., *New York U.*; Jeffrey Dill, Ph.D., *U. of Southern California*; Jeffrey Giesey, Ph.D., *U. of Michigan*; John Gillam (part-time), Ph.D., *Michigan State U.*; Douglas Lawrence, Ph.D., *Johns Hopkins U.*; Joseph H. Nurre, Ph.D., *U. of Cincinnati*; Shawn Ostermann, Ph.D., *Purdue U.*; Constantinos Vassiliadis, Ph.D., *Mississippi State U.*

Asst. Prof: Chris Bartone, Ph.D., *Ohio U.*; Liming Cai, Ph.D., *Texas A & M U.*; Voula Georgopoulos, Ph.D., *Tufts U.*; Larry Irwin (part-time), M.S., *Ohio U.*; David Juedes, Ph.D., *Iowa State U.*; Cynthia Marling, Ph.D., *Case Western Reserve U.*; Brett Tjaden, Ph.D., *U. of Virginia*.

Lect: Margaret Thomas (part-time), M.A., *Ohio U.*

Instr: William Austad (part-time), M.S., *Ohio U.*; John Dolan (part-time), M.S., *Ohio U.*; Victor Hanna (part-time), M.S., *Youngstown State U.*; Vasant Shastri (part-time), Ph.D., *Ohio U.*

Asst. Instr: B. Deahl, B.F.A., *U. of Iowa*; David Sharpe, M.A., *Brown U.*

Engineering, Industrial and Manufacturing Systems

Prof: Charles M. Parks (chair), Ph.D., *Oklahoma State U.*; E. Ralph Sims (emeritus, part-time), M.B.A., *Ohio U.*; Robert Williams (emeritus, part-time), Ph.D., *Ohio State U.*; Helmut Zwahlen (emeritus, part-time, Russ Prof.), Ph.D., *Ohio State U.*

Assoc. Prof: Richard J. Gerth, Ph.D., *U. of Michigan*; David A. Koonce, Ph.D., *Louisiana State U.*

Asst. Prof: Trevor S. Hale, Ph.D., *Texas A&M U.*; Thomas K. Keyser, Ph.D., *Clemson U.*; Robert Lipset, Ph.D.; *Oakland U.*; Dale T. Masel, Ph.D., *Pennsylvania State U.*; Dusan Sormaz, Ph.D., *U. of Southern California*.

Engineering, Mechanical

Prof: Khairul Alam (Moss Prof.), Ph.D., *California Institute of Technology*; Gary Graham, Ph.D., *Texas Technical U.*; Jay Gunasekera (Moss Prof. and chair), Ph.D., *U. of London*; Hajrudin Pasic, Ph.D., *Stanford U.*; T. Richard Robe (dean emeritus), Ph.D., *Stanford U.*

Assoc. Prof: Kenneth Halliday, Ph.D., *U. of Massachusetts*; Bhavin Mehta (part-time), Ph.D., *Ohio U.*; Israel Urieli, Ph.D., *U. of Witwatersrand*.

Asst. Prof: David Bayless, Ph.D., *U. of Illinois*; James M. Fragomeni, Ph.D., *Purdue U.*; Gregory G. Kremer, Ph.D., *U. of Cincinnati*; Jae Y. Lew, Ph.D., *Georgia Institute of Technology*; Robert L. Williams II, Ph.D., *Virginia Polytechnic Institute and State U.*

English

Dist. Prof: Robert DeMott, Ph.D., *Kent State U.*; Wayne Dodd (emeritus, part-time), Ph.D., *U. of Oklahoma*; John Matthews, M.A., *Ohio State U.*

Trustee Prof: Samuel Crowl, Ph.D., *Indiana U.*

Prof: Laurence Bartlett (emeritus, part-time), Ph.D., *Michigan State U.*; Frank Cronin, (emeritus, part-time), Ph.D., *U. of Pittsburgh*; Susan Crowl, Ph.D., *Indiana U.*; James Davis (emeritus, part-time), Ph.D., *Florida State U.*; Raymond Fitch (emeritus, part-time), Ph.D., *U. of Pennsylvania*; Roy Flannagan, Ph.D., *U. of Virginia*; Earl Knies (emeritus, part-time), Ph.D., *U. of Illinois*; Dean McWilliams, Ph.D., *U. of Oregon*; Vance Ramsey (emeritus, part-time), Ph.D., *U. of Oklahoma*; Barry Roth, Ph.D., *Stanford U.*; Duane Schneider (emeritus, part-time), Ph.D., *U. of Colorado*; James Thompson (emeritus, part-time), Ph.D., *U. of Cincinnati*.

Assoc. Prof: Marilyn Atlas, Ph.D., *Michigan State U.*; Linda Hunt Beckman, Ph.D., *U. of California, Berkeley*; David Bergdahl, Ph.D., *Syracuse U.*; Josephine Bloomfield, Ph.D., *U. of California, Davis*; Marsha Dutton, Ph.D., *U. of Michigan*; Loreen Giese, Ph.D., *Emory U.*; Mark Halliday, Ph.D., *Brandeis U.*; David Heaton (emeritus, part-time), Ph.D., *U. of Michigan*; Janis Holm, Ph.D., *U. of Michigan*; Mara Holt, Ph.D., *U. of Texas*; Reid Huntley (emeritus, part-time), Ph.D., *U. of North Carolina*; Ernest Johansson (emeritus, part-time), Ph.D., *U. of North Carolina*; William Kuhre (emeritus, part-time), Ph.D., *Pennsylvania State U.*; David Lazar, Ph.D., *U. of Houston*; Robert Miklitsch, Ph.D., *SUNY, Buffalo*; Betty Pytlík, Ph.D., *U. of Southern California*; Mark Rollins, Ph.D., *U. of Massachusetts*; Darrell Spencer, Ph.D., *U. of Utah*; Arthur Woolley (interim chair), Ph.D., *U. of Wisconsin*; Linda Zionkowski, Ph.D., *Northwestern U.*

Asst. Prof: Deborah Brown, Ph.D., *U. of Oklahoma*; Michael Brown (part-time) Ph.D. *Ohio U.*; Joan Connor, M.F.A., *Vermont College*; Kenneth Daley, Ph.D., *New York U.*; Andrew Escobedo, Ph.D., *U. of California, Berkeley*; Christine Freeman (part-time), Ph.D., *Kent State U.*; George Hartley, Ph.D., *U. of New Mexico*; Joseph McLaughlin, Ph.D., *Duke U.*; Katarzyna Marciniak, Ph.D., *U. of Oregon*; Charles Naccarato (part-time), Ph.D., *Ohio U.*; Jill Allyn Rosser (part-time), Ph.D., *U. of Pennsylvania*; Albert Rouzie, Ph.D., *U. of Texas*; Thomas Scanlan, Ph.D., *Duke U.*; Barry L. Thatcher, Ph.D., *Purdue U.*; Lowell Ver Heul (part-time), Ph.D., *Ohio U.*; Jeremy Webster, Ph.D., *U. of Tennessee*; Valerie Worthly (part-time), Ph.D., *Ohio U.*

Instr: David Bruce (part-time), M.A., *Ohio U.*; Jane Denbow (part-time), M.A., *Marshall U.*; Miriam Hart (part-time), M.A., *Ohio U.*; Robert Kinsley (part-time), M.A., *Ohio U.*; Thomas Mantey (part-time), M.A., *Ohio U.*; David Sharpe (part-time), M.A., *Brown U.*; Joan Zook (part-time), M.A., *U. of Michigan*.

Environmental and Plant Biology

Prof: James Braselton (chair), Ph.D., *Iowa State U.*; Philip Cantino, Ph.D., *Harvard U.*; James Cavender, Ph.D., *U. of Wisconsin*; John Mitchell, Ph.D., *Edinburgh U.*; Gar Rothwell, Ph.D., *U. of Alberta*; Allan M. Showalter, Ph.D., *Rutgers U.*; Ivan Smith, Ph.D., *U. of London*; Irwin Ungar, Ph.D., *U. of Kansas*.

Assoc. Prof: Gene Mapes (part-time), Ph.D., *U. of Iowa*; Brian McCarthy, Ph.D., *Rutgers U.*; Jan Salick, Ph.D., *Cornell U.*; Arthur T. Trese, Ph.D., *U. of Missouri*.

Asst. Prof: Harvey Ballard, Jr., Ph.D., *U. of Wisconsin*; Morgan Vis-Chiasson, Ph.D., *Memorial U. of Newfoundland*.

Film

Eminent Scholar in Film: Rajko Grljic, M.F.A., *Famu Prague*.

Prof: George Semsel, Ph.D., *Ohio State U.*; David O. Thomas, Ph.D., *Southern Illinois U.*

Assoc. Prof: Jenny Kwok Wah Lau, Ph.D., *Northwestern U.*; R. William Rowley (director), M.F.A., *U. of Iowa*.

Finance

Bank One Prof: Nanda Rangan, Ph.D., *Texas A & M U.*

Charles G. O'Brien Prof. of Finance and Banking: Ganas K. Rakes (chair), D.B.A., *Washington U.*

Prof: Azmi D. Mikhail (emeritus, part-time), Ph.D., *Ohio State U.*

Assoc. Prof: Jeffrey Allen Manzi, Ph.D., *Kent State U.*; Dwight A. Pugh (part-time), Ph.D., *Ohio U.*

Asst. Prof: Natalie M. Chieffe, D.B.A., *Mississippi State U.*; Rajesh P. Narayanan, Ph.D., *Florida State U.*; Padamja Singal, M.B.A., *U. of Delhi*.

Instr: John E. Reynolds III, Executive in Residence, M.B.A., *Wharton School, U. of Pennsylvania*; Scott B. Wright, M.B.A., *Ohio U.*

Geography

Prof: Nancy R. Bain (chair), Ph.D., *U. of Minnesota*; Frank E. Bernard, Ph.D., *U. of Wisconsin*; Bob J. Walter (emeritus, part-time), Ph.D., *U. of Wisconsin*; Lynden S. Williams (emeritus, part-time), Ph.D., *U. of Kansas*.

Assoc. Prof: Hubertus H. L. Bloemer, Ph.D., *The Union Institute*; James M. Dyer, Ph.D., *U. of Georgia*; James K. Lein, Ph.D., *Kent State U.*; Dorothy Sack, Ph.D., *U. of Utah*.

Asst. Prof: Tim Anderson, Ph.D., *Texas A & M U.*; Christopher G. Boone, Ph.D., *U. of Toronto*; Geoffrey L. Buckley, Ph.D., *U. of Maryland*; Ronald H. Isaac, Ph.D., *Southern Illinois U.*; Yeong-Hyun Kim, Ph.D., *Syracuse U.*

Geological Sciences

Prof: Royal Mapes, Ph.D., *U. of Iowa*; Damian Nance (chair), Ph.D., *U. of Cambridge, England*; Geoffrey Smith, Ph.D., *Ohio State U.*; Thomas Worsley, Ph.D., *U. of Illinois*.

Assoc. Prof: Douglas Green, Ph.D., *U. of Wisconsin*; Gene Heien, M.A., *Indiana U.*; David Kidder, Ph.D., *U. of California, Santa Barbara*; Elizabeth Gierlowski-Kordes, Ph.D., *Case Western Reserve U.*

Asst. Prof: Patricia Heiser, Ph.D., *U. of Alaska, Fairbanks*; Dina Lopez, Ph.D., *Louisiana State U.*; Greg Nadon, Ph.D., *U. of Toronto*; Mary Stoertz, Ph.D., *U. of Wisconsin*.

Health Sciences

Prof: Clifford Houk (emeritus, part-time), Ph.D., *Montana State U.*; Gari Lesnoff-Caravaglia, Ph.D., *U. of California, Los Angeles*.

Assoc. Prof: Douglas Bolon, Ph.D., *Virginia Polytechnic Institute and State U.*; Paul E. Fitzgerald (director), Ph.D., *U. of Alabama, Birmingham*; Richard Hedges, Ph.D., *U. of Kentucky*.

Asst. Prof: Patricia Baasel, Ph.D., *Ohio U.*; Kevin Crist, Ph.D., *U. of Iowa*; Stephen Hohman, Ph.D., *Pennsylvania State U.*; Michele Morrone, Ph.D., *Ohio State U.*; Timothy Ryan, M.S., Ph.D., *U. of Texas*; Ruth A. Waibel, M.A., *U. of Phoenix*; Katherine E. Will, Ph.D., *Ohio U.*

Instr: Juli Miller (part-time), M.H.S.A., *Ohio U.*

Hearing and Speech Sciences

Prof: Donald Fucci, Ph.D., *Purdue U.*; Norman Garber (director), Ph.D., *U. of Missouri*; Edwin Leach (part-time), Ph.D., *U. of Kansas*; Gary Neiman (dean), Ph.D., *U. of Illinois*.

Assoc. Prof: Dean Christopher, Ph.D., *Ohio State U.*; Helen Ezell, Ph.D., *U. of Pittsburgh*; Brooke Hallowell, Ph.D., *U. of Iowa*; Ronald Isele (emeritus, part-time), M.A., *Kent State U.*

Asst. Prof: Emily Buckberry (emerita, part-time), M.A., *Ohio U.*; C. Richard Dean, Ph.D., *Stanford U.*; M. Patrick Feeney, Ph.D., *U. of Washington*; Steve An Xue, Ph.D., *Kent State U.*; Erika Zettner, Ph.D., *U. of Washington*.

Instr: Joan Fucci, M.S., *U. of Pittsburgh*; Meryl Ginsburg, M.S., *West Virginia U.*; F. Travis Milliken, M.S., *Brigham Young U.*; Davida Parsons, M.A., *Ohio U.*; Janis M. Wright, M.A., *Cleveland State U.*

History

Ohio Eminent Research Scholar: Alfred Eckes, Ph.D., *U. of Texas*.

Dist. Prof: Charles Alexander, Ph.D., *U. of Texas*; Alonzo Hamby, Ph.D., *U. of Missouri*.

J. Richard Hamilton/Baker and Hostetler Prof: Alan R. Booth (emeritus, part-time), Ph.D., *Boston U.*

Prof: Marvin Fletcher, Ph.D., *U. of Wisconsin*; Jeffrey Herf, Ph.D., *Brandeis U.*; Joan Hoff, Ph.D., *U. of California, Berkeley*; Donald Jordan, Ph.D., *U. of Wisconsin*; William Kaldis, Ph.D., *U. of Wisconsin*; Compton Reeves (emeritus, part-time), Ph.D., *Emory U.*; Donald Richter (emeritus, part-time), Ph.D., *U. of Maryland*; Bruce Steiner (chair), Ph.D., *U. of Virginia*.

Assoc. Prof: Douglas Baxter, Ph.D., *U. of Minnesota*; Phillip Bebb, Ph.D., *Ohio State U.*; Phyllis Field, Ph.D., *Cornell U.*; William Frederick, Ph.D., *U. of Hawaii*; Norman J.W. Goda, Ph.D., *U. of North Carolina*; Michael Grow, Ph.D., *George Washington U.*; Richard Harvey, Ph.D., *U. of Missouri*; Katherine Jellison, Ph.D., *U. of Iowa*; Lyle McGeoch (emeritus, part-time), Ph.D., *U. of Pennsylvania*; Steven Miner, Ph.D., *Indiana U.*; Chester Pach, Ph.D., *Northwestern U.*; Roy Rauschenberg (emeritus, part-time), Ph.D., *U. of Illinois*; Robert Whealey, Ph.D., *U. of Michigan*.

Asst. Prof: Joel Allen, Ph.D., *Yale U.*; Walter Hawthorne, Ph.D., *Stanford U.*; Sholeh A. Quinn, Ph.D., *U. of Chicago*; Mary Frances Smith, Ph.D., *Boston College*.

Human and Consumer Sciences

Prof: Margaret King, Ed.D., *U. of Massachusetts*; Catherine McQuaid-Steiner, (emerita), Ph.D., *Ohio U.*

Assoc. Prof: Judy Matthews (emerita, part-time), Ph.D., *Ohio State U.*; Sharran Parkinson, Ph.D., *Ohio U.*; V. Ann Paulins (director), Ph.D., *Ohio State U.*

Asst. Prof: Jennifer Chabot, Ph.D., *Michigan State U.*; Lee Cibrowski, Ph.D., *Ohio State U.*; Schuyler Cone, Ph.D., *Ohio State U.*; Eugene Geist, Ph.D., *U. of Alabama, Birmingham*; Annette S. Graham, Ph.D., *Pennsylvania State U.*; Marjorie Hagerman, M.S., *Ohio U.*; David Holben, Ph.D., *Ohio State U.*; J. David Matthews, M.A., *Miami U.*; Richard Neumann, M.S., *U. of Wisconsin*; June Varner (emerita, part-time), Ed.D., *West Virginia U.*; Karen Wilcox, Ph.D., *Virginia Polytechnic Institute and State U.*; Letty Workman, M.B.A., *Southern Illinois U.*; Matthew Ziff, M. Arch., *Virginia Polytechnic Institute and State U.*

Instr: Francie Astrom, M.S., *Northern Illinois U.*

Industrial Technology

Prof: James Fales (Loehr Prof. and chair), Ed.D., *Texas A & M U.*; William Reeves, Ed.D., *U. of Kentucky*.

Assoc. Prof: John Deno, Ph.D., *Ohio State U.*; Peter W. Klein, Ph.D., *Ohio U.*; Patrick J. McCuiston, Ph.D., *Texas A & M U.*; Thomas E. Scott, Ph.D., *Ohio U.*; Timothy Sexton, Ph.D., *Ohio U.*

Asst. Prof: Dinesh Dhamija, M.S., *Ohio U.*

Interpersonal Communication

Prof: Tom Daniels, Ph.D., *Ohio U.*; David Descutner, (director), Ph.D., *U. of Illinois*; Sue DeWine (part-time), Ph.D., *Indiana U.*; Elizabeth Graham, Ph.D., *Kent State U.*; Claudia Hale, Ph.D., *U. of Illinois*; Raymie E. McKerrow, Ph.D., *U. of Iowa, Iowa City*; Paul E. Nelson, Ph.D., *U. of Minnesota*.

Assoc. Prof: Roger Aden, Ph.D., *U. of Nebraska*; Christina Beck, Ph.D., *U. of Oklahoma*; Charles Carlson (emeritus, part-time), M.Ed., *Kent State U.*; Ted Foster (emeritus, part-time), Ph.D., *Ohio U.*; Anita James, Ph.D., *U. of Southern California*; Judith Yaross Lee, Ph.D., *U. of Chicago*; Michael Papa, Ph.D., *Temple U.*; Arvind Singhal, Ph.D., *U. of Southern California*; Arvind Singhal, Ph.D., *U. of Southern California*; John Smith, Ph.D., *Wayne State U.*; Ray Wagner (emeritus, part-time), Ph.D., *Ohio U.*

Asst. Prof: Cedric Dawkins, Ph.D., *Ohio State U.*; Jerry L. Miller, Ph.D., *U. of Oklahoma*; Daniel P. Modaff, Ph.D., *U. of Texas*; Wendy Papa, Ph.D., *Ohio U.*; Nagesh Rao, Ph.D., *U. of Michigan*; Timothy Simpson, Ph.D., *U. of South Florida*; Candice Thomas-Maddox, Ed.D., *West Virginia U.*

Lect: Margaret Killough (part-time), J.D., *U. of Detroit*.

Journalism

Knight Visiting Prof: Frank Fee, M.A., *SUNY, Brockport*.

Scripps Howard Visiting Professional: Terry Anderson, B.A., *Iowa State U.*

Prof: Michael Bugeja, Ph.D., *Oklahoma State U.*; Anne M. Cooper, Ph.D., *U. of North Carolina*; Hugh Culbertson (emeritus, part-time), Ph.D., *Michigan State U.*; Dru Riley Everts, Ph.D., *Ohio U.*; Marilyn Greenwald, Ph.D., *Ohio State U.*; Melvin Helitzer, B.A., *Syracuse U.*; Ralph Izard (emeritus, part-time), Ph.D., *U. of Illinois*; Ralph Kliesch (emeritus, part-time), Ph.D., *U. of Minnesota*; Donald Lambert, M.A., *Pennsylvania State U.*; Daniel Riffe (director), Ph.D., *U. of Tennessee*; Jerry Sloan (emeritus, part-time), B.S., *Ohio U.*; Robert Stewart, Ph.D., *U. of Washington*; Patrick Washburn, Ph.D., *Indiana U.*; Patricia Westfall, M.S., *Columbia U.*

Assoc. Prof: Joe Bernt, Ph.D., *U. of Nebraska*; Eddith Dashiell, Ph.D., *Indiana U.*; Sandra Haggerty, B.S., *Utah State U.*; Thomas Hodges, M.S., *South Dakota State U.*; Thomas Peters, M.B.A., *Ohio U.*; Ron Pittman, M.S., *Marshall U.*; Cassandra Reese, Ph.D., *Ohio U.*

Asst. Prof: Bill Beuttler, M.S., *Columbia U.*; Bojinka Bishop, M.S., *U. of Michigan*; Ovril Patricia Cambridge, Ph.D., *Ohio U.*; Jan Slater, Ph.D., *Syracuse U.*; Jeanne R. Steele, Ph.D., *U. of North Carolina*.

Instr: Kenneth Fischer (part-time), M.A., *Brigham Young U.*; Thomas Hodson (part-time), J. D., *Ohio State U.*; Kathy Pittman (part-time), M.Ed., *Ohio U.*

Asst. Instr: Douglas E. Nohl (part-time), B.S.C., *Ohio U.*

Linguistics

Prof: Zinny Bond, Ph.D., *Ohio State U.*; David Bell (visiting), *Boston U.*; Leslie Flemming (dean), Ph.D., *U. of Wisconsin*.

Assoc. Prof: James Coady, Ph.D., *Indiana U.*; Beverly Flanigan, Ph.D., *Indiana U.*; Richard McGinn (chair), Ph.D., *U. of Hawaii*; Marmo Soemarmo, Ph.D., *U. of California, Los Angeles*.

Asst. Prof: Scott Jarvis, Ph.D., *Indiana U.*; John Mugone, Ph.D., *U. of Arizona*; Hiroyuki Oshita, Ph.D., *U. of Southern California*; Liang Tao, Ph.D., *U. of Colorado*; Christopher Thompson, Ph.D., *U. of Illinois*.

Instr: Fumika Chosokabe, M.A., *Ohio U.*; Joung Hee Krzic (visiting), M.A., *Ohio U.*; Suharni Soemarmo, M.A., *U. of California, Los Angeles*.

Management Information Systems

Prof: Ted R. Compton, Ph.D., *U. of Cincinnati*; John Day (chair), Ph.D., *Ohio U.*; Raymond Frost, Ph.D., *U. of Miami, Florida*; Thomas G. Luce, Ph.D., *Purdue U.*; James Perotti, Ph.D., *Duquesne U.*

Assoc. Prof: Hao Lou, Ph.D., *U. of Houston*; David Sutherland, Ph.D., *U. of Kansas*.

Asst. Prof: Kevin Elder, Ph.D., *U. of Arizona*; Elsworth Holden (emeritus, part-time), M.A., *Harvard U.*; Craig Van Slyke, Ph.D.; *U. of South Florida*.

Lect: Corrine Brown (part-time), Ph.D., *Ohio U.*

Management Systems

O'Brieness Prof: John R. Schermerhorn Jr., Ph.D., *Northwestern U.*

Lecturer and Executive-in-Residence: Richard C. Scamehorn, M.B.A., *Indiana U.*

Prof: Thomas Bolland (emeritus, part-time), Ph.D., *U. of Chicago*; C. Aaron Kelley, Ph.D., *U. of North Texas*; Manjuli Koshal, Ph.D., *Patna U.*; Arthur Marinelli, J.D., *Ohio State U.*

Valerie S. Perotti, Ph.D., *Ohio U.*; Lucian Spataro, (emeritus, part-time), Ph.D., *U. of Illinois*; John Stinson (emeritus, part-time), Ph.D., *Ohio State U.*; Lane Tracy (emeritus, part-time), Ph.D., *U. of Washington*.

Assoc. Prof: Frank Barone, Ph.D., *Ohio State U.*; Gerald F. Carvalho, (emeritus, part-time), Ph.D., *U. of Michigan*; Garth Coombs, Ph.D., *U. of Colorado*; Kenneth Cutright, Ph.D., *West Virginia U.*; William Day (emeritus, part-time), D.B.A., *Harvard U.*; Patricia Gunn, J.D., *Boston College*; Mary Keifer (chair), J.D., *U. of Virginia*; Clarence Martin, Ph.D., *Carnegie Mellon U.*; Richard Milter, Ph.D., *SUNY, Albany*; Bonnie Roach, Ph.D., *Ohio State U.*; Jessie Roberson, J.D., *U. of Michigan*; Hugh Sherman, Ph.D., *Temple U.*; Rebecca A. Thacker, Ph.D., *Texas A & M U.*; Edward B. Yost, Ph.D., *Ohio State U.*

Asst. Prof: David Chappell, Ph.D., *U. of Colorado*; Mary Tucker, Ph.D., *U. of New Orleans*.

Instr: Virginia Woolley (part-time), M.A., *U. of Wisconsin*.

Lect: Pamela A. Boger (part-time), Ph.D., *Ohio U.*; C. Michael Gray (part-time), J.D., *U. of Wisconsin*; John Keifer, J.D., *U. of Virginia*; Peggy Miller (part-time), Ph.D., *Ohio U.*; Christine A. Yost (part-time), Ph.D., *Ohio U.*

Marketing

O'Brieness Chair of Marketing: Ashok Gupta, Ph.D., *Syracuse U.*

Prof: Kahandas Nandola, Ph.D., *U. of Pennsylvania*.

Assoc. Prof: Catherine N. Axinn, Ph.D., *Michigan State U.*; Mary Elizabeth Blair, Ph.D., *U. of South Carolina*; Timothy P. Hartman, Ph.D., *Ohio U.*; Daniel E. Innis, Ph.D., *Ohio State U.*

Asst. Prof: Dawn Deeter, Ph.D., *U. of S. Florida*; Barbara J. Dyer, Ph.D., *U. of Tennessee*; Christopher Moberg, M.B.A., *Miami University*; Jane Z. Sojka, Ph.D., *U. of Washington*.

Instr: Larry S. Rogers, M.B.A., *Ohio U.*

Mathematics

Prof: Abdol-Reza Aftabizadeh, Ph.D., *U. of Texas, Arlington*; Sergiu Aizicovici, Ph.D., *U. of Iasi*; Alexander V. Arhangelskii, Dr. Sc., VAC, *USSR*; Ralph deLaubenfels, Ph.D., *U. of California, Berkeley*; Surender Jain, Ph.D., *U. of Delhi*; Winifred Just, Ph.D., *U. of Warsaw*; Sergio Lopez-Permouth (chair), Ph.D., *North Carolina State U.*; Nicolae Pavel, Ph.D., *U. of Iasi*; Hari Shankar (emeritus, part-time), M.A., *U. of Cincinnati*; Larry Snyder (emeritus, part-time), Ph.D., *Purdue U.*; Shih-Liang Wen (emeritus, part-time), Ph.D., *Purdue U.*; Thomas Wolf, Ph.D., *U. of Wisconsin*; Quoc Phong Vu, Dr. Sc., VAC, *USSR*.

Assoc. Prof: Jeffery Connor, Ph.D., *Kent State U.*; Klaus Eldridge, Ph.D., *U. of Colorado*; Barbara Grover, Ph.D., *U. of Pittsburgh*; Archil Gulisashvili, Dr. Sc., VAC, *USSR*; David Keck, Ph.D., *Ohio State U.*; Paul S. Malcom (emeritus, part-time), Ph.D., *Ohio State U.*; M.S.K. Sastry, Ph.D., *U. of Rochester*; James Shirey, Ph.D., *Purdue U.*; Paul J. Szeptycki, Ph.D., *U. of Toronto*; Vladimir Uspenskiy, Ph.D., *Lomsnosov Moscow U.*; Robert Vancko (emeritus, part-time), Ph.D., *Pennsylvania State U.*; Vladimir Vinogradov, Ph.D., *Moscow State U.*

Asst. Prof: Eyal Arian, Ph.D., *The Weizmann Institute of Science*; Steven A. Chapin, Ph.D., *Rutgers U.*; Thomas Hogan, Ph.D., *U. of Wisconsin, Madison*; William E. Kaufman, Ph.D., *U. of Houston*; Todd Young, Ph.D., *Georgia Institute of Technology*.

Military Science

Prof: Paul L. Schwanenberg, M.A., *Webster U.*

Asst. Prof: Stephen Knotts, B.A., *Xavier U.*

Modern Languages

James S. Reed Standard Products Co. Prof: Lois Vines, Ph.D., Georgetown U.

Prof: Richard Danner (emeritus, part-time), Ph.D., Indiana U.; Thomas Franz, Ph.D., U. of Kansas; Barry Thomas, Ph.D., U. of California, Berkeley; Maureen Weissenrieder, Ph.D., Pennsylvania State U.; William Wrage (emeritus, part-time), Ph.D., U. of Wisconsin.

Assoc. Prof: Noel Barstad (emeritus, part-time), Ph.D., U. of Minnesota; David Burton, Ph.D., U. of Kentucky; Mary Jane Kelley (chair), Ph.D., U. of Wisconsin; Abelardo Moncayo-Andrade, Ph.D., U. of Maryland; Ruth Nybakken, Ph.D., Columbia U.; Betsy Partyka, Ph.D., Oxford U.; Herta Rodina, Ph.D., Harvard U.; Fred Toner, Ph.D., U. of Kansas; Daniel Torres, Ph.D., U. of Cincinnati; Marie-Claire Wrage, Ph.D., U. of Wisconsin.

Asst. Prof: José Delgado, Ph.D., Indiana U.; Grafton Conliffe (emeritus, part-time), Ph.D., Northwestern U.; Dominique Duvert, Ph.D., U. of North Carolina; Elise Signe Denbow, Ph.D., U. of Michigan; Karen Evans-Romaine, Ph.D., U. of Michigan; Yolande Helm, Ph.D., Pennsylvania State U.; Susanne Hill, Ph.D., U. of Florida; Nelson Hippolyte, Ph.D., U. of Pittsburgh; Emilia Marks, Ph.D., U. of Sevilla; Matthew Raden, Ph.D., U. of Pennsylvania; Kristina von Held, Ph.D., U. of Massachusetts, Amherst; Robin Wright, M.A., Ohio State U.

Instr: Dominique Bardet, M.A., Appalachian State U.; Kathleen Brown, B.A., U. of Chicago; Jeffrey Marks, M.A., U. of Oregon; Jorge Alberto Perez, Ph.D., Syracuse U.; Anne Porter, M.A., Middlebury College; Barbara Reichenbach, M.A., Kent State U.; Vanisa Sellers, M.A., Pennsylvania State U.; Maria Spitz, M.A., Washington U.; Josefina Williams, M.A., Ohio U.; Karin Wright, M.A., Ohio U.

Lect: Bartolomeo Martello, M.A., Michigan State U.

Music

Prof: Ernest Bastin, M.M., U. of Illinois; Howard Beebe (part-time), M.S., Juilliard School of Music; Gail Berenson, M.M., Northwestern U.; Mark Phillips, D.M., Indiana U.; Allyn Reilly, Ph.D., Northwestern U.; Guy Remonko, M.M., West Virginia U.; Harold Robison, D.M.A., U. of Michigan; James Scholten, Ed.D., U. of Michigan; Ronald Socciarelli (emeritus, part-time), M.M., U. of Michigan; Roger Stephens (director), M.M., East Carolina U.; Richard Syracuse, M.S., Juilliard School of Music; Richard Wetzel, Ph.D., U. of Pittsburgh.

Assoc. Prof: Marjorie Bennett Stephens, M.M., Ohio State U.; Milton Butler, Ph.D., U. of Arizona; John Climer, D.M.A., U. of Missouri, Kansas City; Peggy A. Coddling, Ph.D., Florida State U.; Donna Conaty, M.M., Yale School of Music; Kimoto Furumoto, M.M., Cincinnati Conservatory of Music; Sylvia Reynolds Henry, Ph.D., U. of Kansas; Peter Jarjisian, D.M.A., U. of Wisconsin; Michael Kellogg, M.M., Loyola U.; James Stewart (part-time), Ph.D., Ohio State U.; Margene Stewart (part-time), M.F.A., Ohio U.; Sylvester Young, M.M., Bowling Green State U.; Ira Zook, D.M.A., U. of Michigan.

Asst. Prof: Tony Baker, M.M., U. of Minnesota; Paul Barte, D.M.A., U. of Rochester; Nancy Beebe (part-time), M.M., Ohio U.; Dorothy Bryant, Ph.D., U. of Oklahoma; Alison Freedy, M.M., U. of Nebraska; Pauline Gagliano (part-time), M.S., U. of Illinois; Matthew James, M.M., U. of North Texas; Patricia Pease, D.M.A., Florida State U.; Rebecca Rischin, D.M., Florida State U.; Mark Schroeder, M.M., Cleveland Institute of Music; John Schlach, M.M., Northwestern U.; C. Scott Smith, M.M., Michigan State U.; Richard Suk, M.M.E., U. of Southern Mississippi.

Nursing

Prof: Kathleen Rose-Grippa (director), Ph.D., Stanford U.

Assoc. Prof: Sharon Denham, D.S.N., U. of Alabama, Birmingham.

Asst. Prof: Maxine Knapp, Ph.D., Ohio U.; Emily Harman, M.S.N., West Virginia U.; Sharon Mullen, Ph.D., Ohio U.; Carla Phillips, Ph.D., Ohio State U.; Martha Rock, Ph.D., U. of Delaware; Kathleen Tennant, Ph.D., Ohio U.

Ohio Program of Intensive English

Lect: John Bagnole, M.A., Georgetown U.; Linn Forhan, M.A., Ohio U.; Cynthia Holliday, M.A., SUNY, Albany; Mary Kaye Jordan, M.A., Ohio U.; Greg Kessler, M.A., California State U., Sacramento; Gerald Krzic, Ph.D., Ohio U.; John McVicker, M.A., U. of Kansas; Charles Mickelson (director), M.A., Ohio U.; John Miller, M.A., School of International Training; Patrick Miller, M.A., Ohio U.; Michelle O'Malley, M.A., Ohio U.; Lia Plakans, M.A., Iowa State U.

College of Osteopathic Medicine

Biomedical Sciences

Goll Ohio Eminent Research Scholar: John Kopchick, Ph.D., U. of Texas, Houston.

Distinguished Prof: Robert S. Hikida, Ph.D., U. of Illinois.

Prof: Jack Blazys, Ph.D., Brown U.; Joseph T. Eastman, Ph.D., U. of Minnesota; Fredrick Hagerman, Ph.D., Ohio State U.; Peter Johnson, Ph.D., U. of Birmingham; Joseph Jollick, Ph.D., West Virginia U.; William S. Romoser, Ph.D., Ohio State U.

Assoc. Prof: Huzoor Akbar, Ph.D., Australian National U.; Charles Atkins (emeritus, part-time), Ph.D., North Carolina State U.; Bonita Biegalka, Ph.D., U. of Washington; Audrone Biknėvičius, Ph.D., Johns Hopkins U.; Kenneth Goodrum, Ph.D., U. of Texas; Frank Horodyski, Ph.D., U. of California, San Diego; John Howell, Ph.D., U. of California, Los Angeles; Calvin B. L. James, Ph.D., Howard U.; Richard Klabunde, Ph.D., U. of Arizona; Malcolm C. Modrzakowski, Ph.D., U. of Georgia; Ronald Portanova (chair), Ph.D., Case Western Reserve U.; Linda Ross, Ph.D., U. of Texas; Edwin C. Rowland, Ph.D., Wake Forest U.; Robert S. Staron, Ph.D., Ohio U.; Leon C. Wince, Ph.D., West Virginia U.

Asst. Prof: Mark Berryman, Ph.D., U. of Virginia; Xiao-Zhuo Chen, Ph.D., Ohio U.; Peter Coschigano, Ph.D., Massachusetts Institute of Technology; Lawrence Witmer, Ph.D., Johns Hopkins U.

Instr: Mary K. Eastman, M.S., Ohio U.; Lincoln Gotshalk, M.S., Temple U.

Department of Family Medicine

Trustee Prof: Frank W. Myers (emeritus, part-time), D.O., University of Osteopathic Medicine and Human Sciences, Des Moines.

Prof: John A. Brose, D.O., U. of North Texas/Texas College of Osteopathic Medicine; Anthony G. Chila, D.O., U. of Health Sciences, College of Osteopathic Medicine, Kansas City; Judith W. Rhue, Ph.D., Ohio U.; Barbara Ross-Lee (dean), D.O., Michigan State U. College of Osteopathic Medicine.

Assoc. Prof: David E. Brown, D.O., U. of Health Sciences, College of Osteopathic Medicine, Kansas City; Peter B. Dane, D.O., Michigan State U. College of Osteopathic Medicine; William F. Duerfeldt, D.O., Kirksville College of Osteopathic Medicine; Donald R. Furci (Doctors Hospital, Columbus), D.O., Kirksville College of Osteopathic Medicine; Karl Harnish, D.O., Chicago College of Osteopathic Medicine; John G. Horton, D.O., Chicago College of Osteopathic Medicine; Donna M. Mabry (part-time), Ph.D., Ohio U.; Daniel J. Marazon, D.O., Kirksville College of Osteopathic Medicine; Alfred M. Pheley (part-time), Ph.D., U. of Minnesota; Lenard G. Presutti, D.O., University of Osteopathic Medicine and Surgery, Des Moines; Daniel J. Raub, D.O., M.A., Philadelphia College of Osteopathic Medicine, Michigan State U.; Gerald Rubin, D.O., Philadelphia College of Osteopathic Medicine; Robert G. Stockmal, D.O., Ph.D., Philadelphia College of Osteopathic Medicine, Jefferson Medical College; Anthony J. Tenoglia (part-time), D.O., U. of Health Sciences, College of Osteopathic Medicine, Kansas City; John C. Wolf, D.O., Kirksville College of Osteopathic Medicine.

Asst. Prof: William J. Burke (Doctors Hospital, Columbus), D.O., Ohio U. College of Osteopathic Medicine; Zachary J. Comeaux, D.O., Ohio U. College of Osteopathic Medicine; David C. Eland, D.O., Kirksville College of Osteopathic Medicine; Carol M. Gaines, D.O., West Virginia School of Osteopathic Medicine; Robert S. Gotfried, D.O., Philadelphia College of Osteopathic Medicine; Dale C. Pratt-Harrington, D.O., Ohio U. College of Osteopathic Medicine; Edward W. Schreck, D.O., Chicago College of Osteopathic Medicine; Jay H. Shubbrook, D.O., Ohio U. College of Osteopathic Medicine; Christopher Simpson, D.O., Kirksville College of Osteopathic Medicine; Martha A. Simpson, D.O., Kirksville College of Osteopathic Medicine; Donald G. Spaeth, D.O., Ph.D., U. of Health Sciences College of Osteopathic Medicine, SUNY Buffalo; David N. Stroh (chair), D.O., Ohio U. College of Osteopathic Medicine; Harold C. Thompson III, D.O., Chicago College of Osteopathic Medicine; Linda B. Tomc (part-time), D.O., Ohio U. College of Osteopathic Medicine.

Department of Social Medicine

Prof: Norman Gevitz (chair), Ph.D., U. of Chicago.

Assoc. Prof: Thomas Campanella (part-time), J.D., Cleveland State U.; Ann R. Fingar (part-time), M.D., MPH, U. of Illinois College of Medicine, Ohio State U.; Susanne E. Hatty, Ph.D., U. of Sydney; Marjorie E. Nelson, M.D., MPH, Indiana U. School of Medicine, Yale U.; Charlene E. Smith (part-time), Ph.D., Ohio U.; Robert M. Woodworth, D.O., MPH, Chicago College of Osteopathic Medicine, U. of Oklahoma Health Sciences Center.

Asst. Prof: Douglas D. Mann, Ph.D., Ohio U. Jacqueline H. Wolf, Ph.D., U. of Illinois, Chicago.

Instr: Michael A. Weiser (part-time), M.S., Ohio U.

Department of Specialty Medicine

Prof: Paul E. Cadamagnani, D.O., Chicago College of Osteopathic Medicine.

Assoc. Prof: James D. Bové III, D.O., Philadelphia College of Osteopathic Medicine; Steven G. Carin, D.O., Philadelphia College of Osteopathic Medicine; Gary Cordingly (part-time), M.D., Duke U. Medical Center; James E. Foglesong, D.O., Kirksville College of Osteopathic Medicine; Edward A. Gotfried (chair), D.O., Philadelphia College of Osteopathic Medicine; Scott A. Jenkinson, D.O., Ohio U. College of Osteopathic Medicine; James E. Sammons Jr., D.O., Ohio U. College of Osteopathic Medicine; James M. Sutherland, D.O., Philadelphia College of Osteopathic Medicine; Michael Tomc, D.O., Ohio U. College of Osteopathic Medicine.

Asst. Prof: Janice Carrick (part-time), D.O., *College of Osteopathic Medicine of the Pacific*; Jeffrey McAdoo (part-time), M.D., *Ohio State U. College of Medicine*; Mark McGee (part-time), M.D., *Ohio State U. College of Medicine*; Neal James Nesbitt (part-time), M.D., *U. of California, Los Angeles*; Kendall Stewart (part-time), M.D., *Medical College of Georgia*; Nili Urieli (part-time), D.O., *Ohio U. College of Osteopathic Medicine*.

Department of Geriatric Medicine/ Gerontology

Assoc. Prof: Allison J. Batchelor, M.D., *Medical College of Ohio at Toledo*; Wayne R. Carlsen (chair), D.O., *U. of Medicine and Dentistry of New Jersey, School of Osteopathic Medicine*.

Asst. Prof: Steven W. Clay, D.O., *Kirkville College of Osteopathic Medicine*; H. Stuart Edmiston, D.O., *Ohio U. College of Osteopathic Medicine*; Tracy L. Marx, D.O., *Ohio U. College of Osteopathic Medicine*.

Department of Pediatrics

Prof: J. Phillip Jones (chair), D.O., *U. of Health Sciences College of Osteopathic Medicine, Kansas City*.

Assoc. Prof: C. Thomas Clark, D.O., *U. of Osteopathic Medicine and Health Sciences, Des Moines*; Karen Montgomery-Reagan, D.O., *West Virginia School of Osteopathic Medicine*.

Asst. Prof: Susan Lawrence, D.O., *College of Osteopathic Medicine and Health Sciences, Des Moines*.

Department of Obstetrics/Gynecology

Assoc. Prof: J. Jack Chan, D.O., *Chicago College of Osteopathic Medicine*; Catherine A. Coats, D.O., *Chicago College of Osteopathic Medicine*; Kenneth P. Gliner (chair), D.O., *College of Osteopathic Medicine and Health Sciences, Des Moines*; Jack M. Ramey, D.O., *Kansas City College of Osteopathic Medicine*.

Philosophy

Trustee Prof: Charles J. Ping (president emeritus, part-time), Ph.D., *Duke U.*; David Stewart (emeritus, part-time), Ph.D., *Rice U.*

Prof: John Bender, Ph.D., *Harvard U.*; Gene Blocker (emeritus, part-time), Ph.D., *U. of California, Berkeley*; Donald Borchert (chair), Ph.D., *Princeton Theological Seminary*; Algis Mickunas, Ph.D., *Emory U.*; Albert Mosley, Ph.D., *U. of Wisconsin*.

Assoc. Prof: Elizabeth Collins, Ph.D., *U. of California, Berkeley*; Philip Ehrlich, Ph.D., *U. of Illinois, Chicago*; James Petrik, Ph.D., *Marquette U.*; Robert Trevas (part-time), Ph.D., *U. of Maryland*; George Weckman, Ph.D., *U. of Chicago*; Arthur Zucker, Ph.D., *U. of Minnesota*.

Asst. Prof: Scott Carson, Ph.D., *U. of North Carolina*; Mark LeBar, Ph.D., *U. of Arizona*; Miguel Vatter, Ph.D., *New School for Social Research*.

Physical Therapy

Assoc. Prof: Gary S. Chleboun, Ph.D., *Ohio U.*; Averell Overby (director), Dr.P.H., *U. of Texas*.

Asst. Prof: Dennis Cade, Ph.D., *Ohio U.*; Rosalind S. Hickenbottom, Ph.D., *Emory U.*; Douglas Kohn, Ph.D., *U. of New Mexico*.

Instr: Betty Willy (part-time), M.A., *U. of Michigan*.

Physics and Astronomy

Dist. Prof: Roger Finlay (emeritus, part-time), Ph.D., *Johns Hopkins U.*; Jacobo Rapaport (emeritus, part-time), Ph.D., *Massachusetts Institute of Technology*.

Prof: James Dille (emeritus, part-time), Ph.D., *Syracuse U.*; Steven M. Grimes, Ph.D., *U. of Wisconsin*; Kenneth Hicks, Ph.D., *U. of Colorado*; Earle Hunt (emeritus, part-time), Ph.D., *Rutgers U.*; Martin Kordesch, Ph.D., *Case Western Reserve U.*; David Onley (emeritus, part-time), D.Phil., *Oxford U.*; Roger Rollins, Ph.D., *Cornell U.*; Sergio Ulloa, Ph.D., *SUNY, Buffalo*; Louis Wright (chair), Ph.D., *Duke U.*; Seung Yun (emeritus, part-time), Ph.D., *Brown U.*

Assoc. Prof: Charles Briant, Ph.D., *U. of Texas*; David Drabold, Ph.D., *Washington U.*; Charlotte Elster, Dr. rer. nat., *U. of Bonn*; David Ingram, Ph.D., *Salford U.*; Peter Jung, Ph.D., *U. of Ulm*. Thomas S. Statler, Ph.D., *Princeton U.*

Asst. Prof: Clyde Baker, M.S., *Ohio U.*; Daniel S. Carman, Ph.D., *Indiana U.*; Jean J. Heremans, Ph.D., *Princeton U.*; Mark Lucas, Ph.D., *U. of Illinois*; Allena K. Oppen, Ph.D., *Indiana U., Bloomington*; Joseph Shields, Ph.D., *U. of California, Berkeley*; Arthur Smith, Ph.D., *U. of Texas*; Victoria Soghomonian, Ph.D., *Syracuse U.*; Larry Wilen, Ph.D., *Princeton U.*

Political Science

Prof: Richard H. Bald (emeritus, part-time), Ph.D., *U. of Michigan*; Edward Baum (emeritus, part-time), Ph.D., *U. of California, Los Angeles*; David D. Dabelko, Ph.D., *U. of Illinois*; Felix V. Gagliano (emeritus, part-time), Ph.D., *U. of Illinois*; Harold Molineu, Ph.D., *American U.*; Michael J. Mumper, Ph.D., *U. of Maryland*; Patricia B. Richard, Ph.D., *Syracuse U.*; Joseph B. Tucker (emeritus, part-time), Ph.D., *U. of Illinois*; Thomas W. Walker, Ph.D., *U. of New Mexico*; Mark L. Weinberg, Ph.D., *U. of North Carolina*.

Assoc. Prof: Delysa Burnier, Ph.D., *U. of Illinois*; John R. Gilliom, Ph.D., *U. of Washington*; J. Franklin Henderson, Ph.D., *U. of Missouri*; Ronald J. Hunt, Ph.D., *Ohio State U.*; Sung Ho Kim, Ph.D., *Columbia U.*; Nancy J. Manning, Ph.D., *U. of Michigan*; Alexander V. Prisley, Ph.D., *Brown U.*; David L. Williams (chair), Ph.D., *Columbia U.*

Asst. Prof: Lisa M. Aubrey, Ph.D., *Ohio State U.*; Lisa J. Conant, Ph.D., *U. of Washington*; C. Ann Gordon, Ph.D., *U. of Southern California*; Michael Malley, Ph.D., *U. of Wisconsin*; Samuel P. Nelson, Ph.D., *U. of Wisconsin*; Lewis A. Randolph, Ph.D., *Ohio State U.*; Kole A. Shettima, Ph.D., *U. of Toronto*; Takaaki Suzuki, Ph.D., *Columbia U.*; Patricia Weitsman, Ph.D., *Columbia U.*; Julie A. White, Ph.D., *U. of Wisconsin*.

Psychology

Trustee Prof: James Bruning (provost emeritus), Ph.D., *U. of Iowa*.

Prof: Margret Appel, Ph.D., *U. of Denver*; Jack Arbuthnot, Ph.D., *Cornell U.*; Hal Arkes, Ph.D., *U. of Michigan*; Francis Bellezza, Ph.D., *U. of Minnesota*; John Garske, Ph.D., *U. of California, Berkeley*; Donald Gordon, Ph.D., *U. of Alabama*; Kenneth Holroyd, Ph.D., *U. of Miami*; Francis J. Keefe, Ph.D., *Ohio U.*; Harry Kotses, Ph.D., *Michigan State U.*; Paul Lewis, Ph.D., *Bowling Green State U.*; Raymond P. Lorion (chair), Ph.D., *U. of Rochester*; John McNamara, Ph.D., *U. of Georgia*; Gary Schumacher, Ph.D., *Iowa State U.*

Assoc. Prof: Mark Alicke, Ph.D., *U. of North Carolina*; Bruce Carlson, Ph.D., *U. of Michigan*; Peter Chen, Ph.D., *U. of South Florida*; Christopher France, Ph.D., *McGill U.*; Christine Gidycz, Ph.D., *Kent State U.*; David Johnson, Ph.D., *Ohio State U.*; G. Daniel Lassiter, Ph.D., *U. of Virginia*; Danny Moates, Ph.D., *Vanderbilt U.*; Benjamin Ogles, Ph.D., *Brigham Young U.*; Paula Popovich, Ph.D., *Michigan State U.*

Asst. Prof: Timothy Anderson, Ph.D., *Miami U.*; Patrick Drumm, Ph.D., *Ohio State U.*; Paul Gleason (part-time), Ph.D., *Pennsylvania State U.*; Claudia Gonzalez-Vallejo, Ph.D., *U. of North Carolina*; Jeanne Heaton (part-time), Ph.D., *Ohio U.*; Andrea Patalano, Ph.D., *U. of Michigan*; Stephen Patterson, Ph.D., *Uniformed Services U. of the Health Sciences*; Gary Sarver, Ph.D., *U. of Florida*; Jeffrey B. Vancouver, Ph.D., *Michigan State U.*; Julie Suhr, Ph.D., *U. of Iowa*; David Wallace, Ph.D., *Texas Christian U.*

Instr: James Short (part-time), M.A., *Ohio U.*

Recreation and Sport Sciences

Prof: Sue Ellen Miller, P.E.D., *Indiana U.*

Assoc. Prof: Tiff E. Cook, Ph.D., *Walden U.*; Keith D. Ernce (director), Ph.D., *U. of New Mexico*; Roger Gilders, Ph.D., *Ohio U.*; Charles R. Higgins (emeritus, part-time), Ed.D., *U. of North Carolina, Greensboro*; Andrew Kreutzer, Ph.D., *Ohio U.*; Robin Mittelstaedt, Ph.D., *U. of Oregon*; Beth VanDerveer, Ph.D., *Texas Woman's U.*

Asst. Prof: Marta Amaral-Melendez, Ph.D., *Louisiana State U.*; Catherine Brown (emerita, part-time), Ph.D., *Ohio State U.*; Matthew Brown, M.S., *Western Illinois U.*; Susan Bullard, Ph.D., *U. of Wisconsin*; David Carr, Ph.D., *Virginia Tech U.*; Richard Deivert, Ph.D., *Pennsylvania State U.*; Ronald Dingle (emeritus, part-time), M.S.P.E., *U. of Massachusetts*; David Jacoby (emeritus, part-time), Ph.D., *Ohio U.*; Joyce King (emerita, part-time), Ph.D., *Ohio State U.*; Mike Miller, Ed.D., *West Virginia U.*; Shari Perkins, R.E.D., *Indiana U.*; James Reese, M.S., *Georgia Southern U.*; Lynn Simon (emerita, part-time), P.E.D., *Indiana U.*; Ronald Whitaker, M.S.Ed., *Ohio U.*; Richard Woolison (emeritus, part-time), M.S.Ed., *Ohio U.*; D. Matthew Zueflu, Ph.D., *Texas A & M U.*

Instr: Carol Ault (part-time), M.S., *Ohio U.*; Trina Bookman, M.S., *Ohio U.*; John Bowman (part-time), M.S.Ed., *U. of Virginia*; Thomas Murray (part-time), M.A., *Ohio U.*; Sharon Noel (part-time), M.S.P.E., *Ohio U.*

Social Work

Assoc. Prof: Miriam Clubok, M.S.W., *Wayne State U.*; Richard W. Greenlee, Ph.D., *Ohio State U.*; Thomas Oellerich, Ph.D., *Case Western Reserve U.*; Carolyn Tice (chair), D.S.V., *U. of Pennsylvania*.

Asst. Prof: Steven Hartsock, Ph.D., *U. of Maryland*; Susan Sarnoff, D.S.V., *Adelphi U.*; Karen Slovak, Ph.D., *Case Western Reserve U.*

Instr: Freve Pace, M.S.W., *Ohio State U.*

Sociology and Anthropology

Prof: Tibor Koertvelyessy, Ph.D., *SUNY, Buffalo*; Lena Wright Myers, Ph.D., *Michigan State U.*; Martin Schwartz (chair), Ph.D., *U. of Kentucky*; Robert Sheak (emeritus, part-time), Ph.D., *Washington U.*; Robert Shelly, Ph.D., *Michigan State U.*; Alex Thio (emeritus, part-time), Ph.D., *SUNY, Buffalo*; Ann Tickamyer, Ph.D., *U. of North Carolina*.

Assoc. Prof: Elliot Abrams, Ph.D., *Pennsylvania State U.*; E. Leon Anderson, Ph.D., *U. of Texas*; Diane M. Ciekawy, Ph.D., *Columbia U.*; Bruce Ergood (part-time), Ph.D., *U. of Florida*; AnnCorinne Freter-Abrams, Ph.D., *Pennsylvania State U.*; Girard Krebs (part-time), Ph.D., *Cornell U.*; Bruce Kuhre (emeritus, part-time), Ph.D., *Pennsylvania State U.*; Christine Mattley, Ph.D., *Washington State U.*; Don Shamblin (part-time), Ph.D., *SUNY, Buffalo*.

Asst. Prof: Eugene Ammarell, Ph.D., *Yale U.*; V. Aileen Hall (part-time), Ph.D., *Kent State U.*; Debra Henderson, Ph.D., *Washington State U.*; Amanda Konradi, Ph.D., *U. of California, Santa Cruz*; Mary Beth Krouse, Ph.D., *Ohio State U.*; Jie-Li Li, Ph.D., *U. of California, Riverside*; Rick Matthews, Ph.D., *Western Michigan U.*; Michael Maume, Ph.D., *Louisiana State U.*; William Miller, Ph.D., *U. of Nevada, Las Vegas*; Steven Rubenstein, Ph.D., *Columbia U.*

Telecommunications

Prof: Don Flournoy, Ph.D., *U. of Texas*; Kathy A. Krendl (dean), Ph.D., *U. of Michigan*; Drew McDaniel, Ph.D., *Ohio U.*; William Miller, Ph.D., *U. of Southern California*; David Mould, Ph.D., *Ohio U.*; Josep Rota, Ph.D., *Michigan State U.*; Joseph Slade, Ph.D., *New York U.*

Assoc. Prof: Duncan Brown, Ph.D., *U. of Illinois*; Vibert Cambridge, Ph.D., *Ohio U.*; Charles Clift III (emeritus, part-time), Ph.D., *Indiana U.*; George Korn (director), Ph.D., *Southern Illinois U.*; Jenny Nelson, Ph.D., *Southern Illinois U.*; Jeff Redefer, M.A., *Ohio U.*; Karin Sandell, Ph.D., *U. of Iowa*.

Asst. Prof: Sandra Sleight-Brennan (part-time), B.G.S., *Ohio U.*; Arthur C. Cromwell, Ph.D., *Ohio U.*; Roger Good, M.A., *Ohio U.*; Norma Pecora, Ph.D., *U. of Illinois*; Joseph Richie, M.M.A., *U. of South Carolina*.

Instr: Sheila Wurtsbaugh (part-time), M.A., *Ohio U.*

Theater

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Ohio Residency

It is the responsibility of the student to report a change of address and/or residency from an Ohio resident to a non-Ohio resident at the Office of the Registrar. If the student's residency has changed to an Ohio resident, he or she must file a residency petition with the Office of Admissions. No change of residency can be made until the residency petition has been approved by the university examiner. Questions concerning residency should be directed to the university examiner in the Office of Admissions.

The residency rules described below were adopted by the Ohio Board of Regents effective November 1, 1989. The rules are subject to change without notice by the Ohio Board of Regents or the Ohio General Assembly.

A Intent and Authority

1 It is the intent of the Ohio Board of Regents in promulgating this rule to exclude from treatment as residents, as that term is applied here, those persons who are present in the state of Ohio primarily for the purpose of receiving the benefit of a state-supported education.

2 This rule is adopted pursuant to Chapter 119 of the Revised Code, and under the authority conferred upon the Ohio Board of Regents by Section 3333.31 of the Revised Code. Effective date: November 1, 1989.

B Definitions

For purposes of this rule:

1 A "resident of Ohio for all other legal purposes" shall mean any person who maintains a 12-month place or places of residence in Ohio, who is qualified as a resident to vote in Ohio and receive state welfare benefits, and who may be subjected to tax liability under Section 5747.02 of the Revised Code, provided such person has not, within the time prescribed by this rule, declared himself or herself to be or allowed himself or herself to remain a resident of any other state or nation for any of these or other purposes.

2 "Financial support" as used in this rule, shall not include grants, scholarships, and awards from persons or entities which are not related to the recipient.

3 An "institution of higher education" as used in this rule shall mean any university, community college, technical institute or college, general and technical college, medical college, or private medical or dental college which receives a direct subsidy from the state of Ohio.

4 For the purpose of determining residency for tuition surcharge purposes at Ohio's state-assisted colleges and universities, "domicile" is a person's permanent place of abode: there must exist a demonstrated intent to live permanently in Ohio, and a legal ability under federal and state law to reside permanently in the state. For the purpose of this policy, only one (1) domicile may be maintained at a given time.

5 For the purpose of determining residency for tuition surcharge purposes at Ohio's state-assisted colleges and universities, an individual's immigration status will not preclude an individual from obtaining resident status if that individual has the current legal status to remain permanently in the United States.

C Residency for subsidy and tuition surcharge purposes

The following persons shall be classified as residents of the state of Ohio for subsidy and tuition surcharge purposes:

1 A dependent student, at least one of whose parents or legal guardian has been a resident of the state of Ohio for all other legal purposes for 12 consecutive months or more immediately preceding the enrollment of such student in an institution of higher education.

2 A person who has been a resident of Ohio for the purpose of this rule for at least 12 consecutive months immediately preceding his or her enrollment in an institution of higher education and who is not receiving, and has not directly or indirectly received in the preceding 12 consecutive months, financial support from persons or entities who are not residents of Ohio for all other legal purposes.

3 A dependent child of a parent or legal guardian, or the spouse of a person who, as of the first day of a term of enrollment, has accepted full-time, self-sustaining employment and established domicile in the state of Ohio for reasons other than gaining the benefit of favorable tuition rates.

Documentation of full-time employment and domicile shall include both of the following documents:

a a sworn statement from the employer or the employer's representative on the letterhead of the employer or the employer's representative certifying that the parent or spouse of the student is employed full-time in Ohio.

b a copy of the lease under which the parent or spouse is lessee and occupant of rented residential property in the state; a copy of the closing statement on residential real property located in Ohio of which the parent or spouse is the owner and occupant; or if the parent or spouse is not the lessee or owner of the residence in which he or she has established domicile, a letter from the owner of the residence certifying that the parent or spouse resides at that residence.

D Additional criteria which may be considered in determining residency for the purpose may include but are not limited to the following:

1 Criteria evidencing residency:

- a** if a person is subject to tax liability under Section 5747.02 of the Revised Code;
- b** if a person qualifies to vote in Ohio;
- c** if a person is eligible to receive state welfare benefits;
- d** if a person has an Ohio driver's license and/or motor vehicle registration.

2 Criteria evidencing lack of residency:

- a** if a person is a resident or intends to be a resident of another state or nation for the purposes of tax liability, voting, receipt of welfare benefits, or student loan benefits (if the student qualified for that loan program by being a resident of that state or nation);
- b** if a person is a resident or intends to be a resident of another state or nation for any purpose other than tax liability, voting, or receipt of welfare benefits. (See paragraph 2., a. of this rule.)

E Exceptions to the general rule of residency for subsidy and tuition purposes

- 1** A person who is living and is gainfully employed on a full-time or part-time and self-sustaining basis in Ohio and who is pursuing a part-time program of instruction at an institution of higher education shall be considered a resident of Ohio for these purposes.
- 2** A person who enters and currently remains upon active duty status in the United States military service while a resident of Ohio for all other legal purposes and his or her dependents shall be considered residents of Ohio for these purposes as long as Ohio remains the state of such person's domicile.
- 3** A person on active duty status in the United States military service who is stationed and resides in Ohio and his or her dependents shall be considered residents of Ohio for these purposes.
- 4** A person who is transferred by his or her employer beyond the territorial limits of the 50 states of the United States and the District of Columbia while a resident of Ohio for all other legal purposes and his or her dependents shall be considered residents of Ohio for these purposes as long as Ohio remains the state of such person's domicile as long as such person has fulfilled his or her tax liability to the state of Ohio for at least the tax year preceding enrollment.

5 A person who has been employed as a migrant worker in the state of Ohio and his or her dependents shall be considered a resident for these purposes, provided such person has worked in Ohio at least four months during each of the three years preceding the proposed enrollment.

F Procedures

1 A dependent person classified as a resident of Ohio for these purposes under the provisions of paragraph (C) (1) of this rule and who is enrolled in an institution of higher education when his or her parents or legal guardian removes their residency from the state of Ohio shall continue to be considered a resident during continuous full-time enrollment and until his or her completion of any one academic degree program.

2 In considering residency, removal of the student or the student's parents or legal guardian from Ohio shall not, during a period of 12 months following such removal, constitute relinquishment of Ohio residency status otherwise established under paragraph (C) (1) or (C) (2) of this rule.

3 For students who qualify for residency status under paragraph (C) (3) of this rule, residency status is lost immediately if the employed person upon whom resident student status was based accepts employment and establishes domicile outside Ohio less than 12 months after accepting employment and establishing domicile in Ohio.

4 Any person once classified as a nonresident, upon the completion of 12 consecutive months of residency, must apply to the institution he or she attends for reclassification as a resident of Ohio for these purposes if such person in fact wants to be reclassified as a resident. Should such person present clear and convincing proof that no part of his or her financial support is or in the preceding 12 consecutive months has been provided directly or indirectly by persons or entities who are not residents of Ohio for all other legal purposes, such person shall be reclassified as a resident.

5 Any reclassification of a person who was once classified as a nonresident for these purposes shall have prospective application only from the date of such reclassification.

6 Any institution of higher education charged with reporting student enrollment to the Ohio Board of Regents for state subsidy purposes and for assessing the tuition surcharge shall provide individual students with a fair and adequate opportunity to present proof of his or her Ohio residency for purposes of this rule. Such an institution may require the submission of affidavits and other documentary evidence which it may deem necessary to a full and complete determination under this rule.

Student Records Policy

Underlying Principles

Ohio University's commitment to its educational mission and to the students and society it is obligated to serve demands that it maintain various records. No education records will be maintained that are not directly related to the basic purposes of the university. All policies and practices governing the collection, maintenance, review, and release of records will be based upon the principles of confidentiality and the student's right to privacy, consistent with the Family Educational Rights and Privacy Act of 1974. This policy shall govern the collection, maintenance, review, and release of student records on the Athens and regional campuses of Ohio University. A student is herein defined to mean any person for whom the university maintains education records or personally identifiable information, but does not include a person who has not been in attendance at the university or any of its regional campuses.

Types of Records

The university recognizes two general types of records: education records and unofficial records.

A Education Records

Education records are those records which are directly related to a present or former student in any form (e.g., print, electronic, microfilm, etc.), which contain information directly related to a present or former student, and which are maintained by the university or by a person acting for the university. Education records shall be subject to the principles regarding collection, maintenance, review, and release which are described below.

Education records include, but are not limited to, the following:

- 1 Admissions records maintained by the Office of Admissions, the College of Osteopathic Medicine, and the Office of Graduate Student Services. The director of admissions, the dean of the College of Osteopathic Medicine, or the associate provost for graduate and research programs are the official custodians of these records;
- 2 Academic records maintained by the dean of the student's college; academic departments; the Registrar's Office; and the Office of Lifelong Learning. The registrar, the deans of the colleges, or the chairpersons of the departments are the official custodians of these records;
- 3 Disciplinary records maintained by the University Judiciaries. The director of Judiciaries is the official custodian of these records;
- 4 Financial aid and student employment records maintained by the Office of Student Financial Aid and Scholarships. The director of the Office of Student Financial Aid and Scholarships is the official custodian of these records;
- 5 Placement records maintained by the Office of Career Services. The director of Career Services is the official custodian of these records;
- 6 Housing records, including contract and lease agreements, maintained by the Housing Office. The director of Housing is the official custodian of these records;
- 7 Financial records by offices which initiate, collect, and record fees assessed and paid;
- 8 International student records. The director of International Student and Faculty Services is the custodian of these records;

9 Any and all other records not specifically designated as unofficial records under subsection b., maintained by a university office or agency as essential to fulfilling the basic purpose and responsibility of the office or agency. The university official responsible for that office or agency is the official custodian of these records.

B Unofficial Records

Unofficial records include:

- 1 Records of institutional, supervisory, and administrative personnel, and faculty and educational personnel ancillary thereto which are in the sole possession of the maker thereof and which are not accessible by or revealed to any other person except a substitute. A substitute means an individual who performs on a temporary basis the duties of the individual who made the record and does not refer to an individual who permanently succeeds the maker of the records in his or her position;
- 2 Records and documents of the Department of Campus Safety, provided that the records and documents are kept apart from the records described in subsection a. of this section, which are maintained solely for law enforcement purposes, and which are not available to persons other than law enforcement officials of the same jurisdiction or other university law enforcement personnel;
- 3 In the case of persons who are employed by the university but who are not in attendance, records made and maintained in the normal course of business which are related exclusively to such person in his or her capacity as an employee and which are not available for use for any other purpose;
- 4 Records which are created or maintained by a physician, psychiatrist, psychologist, or other recognized professional or paraprofessional acting in his or her professional capacity, and which are created, maintained, or used only in connection with the provision of treatment to the student, and which are not available to anyone other than persons providing such treatment; provided, however, that such records can be personally reviewed upon written notice by the student, by a physician, or by other appropriate professional of the student's choice;
- 5 Directory information, including the student's name, address, telephone number, date and place of birth, major field of study, participation in officially recognized activities and sports, weight and height of members of athletic teams, dates of attendance, degrees and awards received, most recent previous

educational agency or institution attended by the student, and other similar information; subject, however, to the limitation stated under the Release of Student Records section below.

Maintenance of Records

Education records shall be maintained only by university administrative personnel assigned responsibility for each of the types of records listed in the Types of Records section above. All university personnel involved in the handling and maintenance of education records shall be instructed concerning the confidential nature of such information and their responsibilities regarding it, pursuant to this policy and the Family Educational Rights and Privacy Act of 1974. This instruction should be a part of each office's orientation procedure.

Persons Authorized to Place Materials in Records Files

Only the following qualified persons are permitted to place information in an education records file: personnel in the office or agency responsible for maintaining the files, and the individual student or others at the request of and, therefore, with the consent of the student.

Challenging or Removing File Contents

A student has the right to a formal hearing, pursuant to and in compliance with sections 99.20 through 99.22 of the Regulations to the Family Educational Rights and Privacy Act of 1974, to challenge the content of such student's education records in order to ensure that the records are not inaccurate, mis-leading, or otherwise in violation of the privacy or other rights of students, and to provide an opportunity for the correction or deletion of any such inaccurate, misleading, or otherwise inappropriate data contained therein, and to insert into such records a written explanation respecting the content of such records.

However, the student shall first attempt to informally resolve his or her grievance through the department chair, dean of his or her college, or, in the case of other records, through the administrative officer responsible for maintaining the records. The office responsible for maintaining the records may charge a reasonable fee, but not more than \$2 per page, for the reproduction of the records. The department chair, dean, or administrative officer, after careful review of the facts surrounding the challenge, shall inform the student, in writing and within five (5) days after the student presents the challenge, of his or her decision and any corrective action that will be taken.

If the student is dissatisfied with the results of his or her informal challenge through the department chair, dean, or administrative officer, he or she shall then file a formal complaint.

Student Access to Records

A student who is or has been in attendance at Ohio University shall have the right to inspect and review the contents of his or education records, subject only to reasonable arrangements concerning time, place, supervision, and cost of reproduction of the records, but in no case shall the time be more than thirty (30) days after a request has been made. Costs of each reproduction shall not be greater than \$2 per page. Exceptions to this general right of review are:

- a Confidential financial records of the student's parents or any information contained therein;
- b Confidential letters and statements of recommendation, which were placed in the education records prior to January 1, 1975, as long as such letters or statements are not used for purposes other than those for which they were specifically intended, as determined by the administrative officer responsible for the office or agency where the record is kept;
- c Unauthorized access to computer/electronic files;
- d If the student has signed a waiver of the student's right of access under this section and the Family Educational Rights and Privacy Act of 1974, confidential recommendations respecting admission to any educational agency or institution, respecting an application for employment, or respecting the receipt of an honor or honorary recognition.

A student or a person applying for admission may waive his or her right of access to confidential statements described in subsection b. of this section, except that such waiver shall apply to recommendations only if the student is, upon request, notified of the names of all persons making confidential recommendations, and such recommendations are used solely for the purpose for which they were specifically intended. The student may revoke, in writing, the previous waiver of his or her right to access to confidential statements or recommendations. Such revocation shall only apply to confidential statements or recommendations placed in the record after the waiver has been revoked. Such waivers may not be required as a condition for admission to, receipt of financial aid from, or receipt of any other services or benefits from the university.

Release of Student Records

Student records at Ohio University are held in trust by the university for the mutual benefit of the student and the educational mission of the university. Therefore, except with the prior written consent of the student, or as otherwise stated below, no information in any student education record file may be released to any individuals or organization.

- a Record-keeping personnel may have access to student education records according to the conditions stipulated in the Maintenance of Records section above.
- b Members of the faculty and staff and other persons demonstrating a legitimate educational interest may have access to student education records for internal educational purposes or for necessary administrative and statistical purposes only. The legitimate educational interest will be determined by the university official responsible for the particular student's education record. Legitimate educational interest is used here in its traditional and classical sense. It means that, in order to serve students and the university, careful, considerate, and responsible judgments must be made by professional people who are responsible and accountable for these judgments. The rights of grievance and appeal are available to the student through the responsible official.

c Direct access to financial, medical, psychological, and placement files is limited to the professional and clerical staff responsible for those matters.

d The following information will be considered public and may be published in a university publication: the student's name, address, telephone number, date and place of birth, major field of study, participation in officially recognized activities and sports, weight and height of members of athletic teams, dates of attendance, degrees and awards received, the most recent previous educational agency or institution attended by the student, and other similar information. Relative to such public or directory information, the university shall give public notice of the categories of information which shall be considered public information, and shall allow a reasonable period of time after such notice has been given for a student to inform the university that all of the information designated should not be released without the student's prior consent.

e Direct access to disciplinary files is limited to the staff of the Office of Judicial Affairs and the Office of Legal Affairs, and the dean of students and his or her immediate staff. This section shall not be construed so as to prohibit the Office of Legal Affairs from advising appropriate university offices that demonstrate a legitimate educational interest in the facts and disposition of a particular disciplinary case, nor shall it be construed so as to prohibit the Office of Judicial Affairs from advising any person demonstrating a need to know as to whether a disciplinary file does or does not exist.

f Medical and psychological information is legally confidential and privileged. It will not be released to anyone without the express written authorization of the individual involved. In such cases, the individual must designate what information is to be released and to whom that information is to be released.

g Notwithstanding the provisions of subsections a-f of this section:

- 1 Education records will be released on compliance with a judicial order, or pursuant to any lawfully issued subpoena, upon condition that the student is reasonably notified of all such orders or subpoenas in advance of the compliance therewith by the university.
- 2 Records, or information from records containing personally identifiable information, may be made available to officials of other schools or school systems in which the student seeks or intends to enroll, upon condition that the student be notified of the transfer, receive a copy of the records if desired, and has an opportunity for a hearing to challenge the content of the record.
- 3 Records or information from records containing personally identifiable information may be released in connection with a student's application for or receipt of financial aid.
- 4 Records or information from records may be released to the parents of a dependent student, as defined in Section 152 of the Internal Revenue Code of 1954. The university presumes for this purpose only that all students are independent. The parents of a student have the burden to show dependent status as defined in Section 152 of the Internal Revenue Code of 1954.
- 5 Records or information from records may be released to the categories of persons or institutions designated in Section 438(b)(1)(C), 438(b)(1)(E), and 439(b)(3) of the Family Educational Rights and Privacy Act of 1974, and sections 99.30(a)(2), and 99.31 through 99.36 of the regulations thereto.
- 6 Records or information from records may be released to organizations conducting studies for or on behalf of educational agencies or institutions for the purpose of developing, validating, or administering predictive tests; administering student aid programs; and

improving instruction, if such studies are conducted in such a manner as will not permit the personal identification of students and their parents by persons other than representatives of such organization, and such information will be destroyed when no longer needed for the purposes for which it was released.

7 Records or information from records may be released to accrediting organizations in order to carry out their accrediting functions.

8 Records or information from records may be released to appropriate persons if the knowledge of such information is necessary to protect the health or safety of the student or other persons.

9 The university officials responsible for implementing the Student Records Policy and ensuring compliance with the Family Educational Rights and Privacy Act of 1974 are the vice president for administration with the assistance of the dean of students and the director of legal affairs. The university ombudsman may examine all education records of a student upon authorization by the student or the director of legal affairs.

Record of Access

Each office shall keep with the education records of each student a record which will specifically indicate the legitimate interest that each such person, agency, or organization, other than other school officials and persons designated in the Release of Student Records section above, has in obtaining this information. Such record of access shall be available only to the student, the school official, and his or her assistants who are responsible for the custody of such records, and to persons or organizations authorized to conduct an audit pursuant to the Family Educational Rights and Privacy Act of 1974. The record should include the name of the individual or agency requesting information, reason for the request, date of the request, and the disposition of the request. The office responsible for the records shall, upon a request in writing by the student, provide a copy of the records disclosed and charge the appropriate fees therefore. Education records or information therefrom shall be transferred to a third party only on the condition that such party will not permit any other party to have access to such information without the written consent of the student.

Retention of Records

Each recordkeeping office will establish and make available a reasonable and justifiable policy regarding the retention of records after the separation of the student from the university. Where legal statutes govern retention, such policies shall be in accordance with those statutes.

Holds on Release of Records

Unmet university financial obligations or pending disciplinary cases may result in a hold being placed on the release of student records. The office originating the hold must inform the student in writing that it has initiated such action. Copies of hold notices will be maintained by the originating office or agency and will serve as verification that written notification has been provided to the student.

Incorporation of Federal Law

The Family Educational Rights and Privacy Act of 1974, and the regulations enacted in pursuance thereof, are hereby incorporated by reference into this policy, and to the extent that this policy conflicts with the law and/or regulations, the law and/or regulations shall take precedence.

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